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Editors' Picks. Browse Editors' Favorites You can't perform that action at this time. "The great idea of constructive type theory is that there is no distinction between programs and proofs... Theorems are types (specifications), and proofs are programs" (Robert Harper) This is a collection of modern resources
on various undergrad level computer science topics, for someone with an interest in theory. Use WorldCat or LibGen if you can't buy these books. You don't have to do everything here, just the topics of interest to you. If you want a condensed version, watch the Great Theoretical Ideas in Computer Science lecture series to see what interests you. On
Isaac Newton's iteration method to self-learn geometry: "He bought Descartes' Geometry and read it by himself .. when he was got over 2 or 3 pages father till he came to another difficult place, than he began again and advanced farther and continued so doing till he made
himself master of the whole without having the least light or instruction from anybody" (King's Cam., Keynes MS 130.10, fol. 2/v/) Numerous anecdotes exist on studying strategies, like the Feynman method explained here "If you can't, out loud or on paper, explain the idea without confusion or contradiction, stop and figure it out right there". There's
some books that model that method, like Gilbert Strang's Calculus has you reciting back the entire chapter you just read. If you ignore the copious amounts of marketing on his site, Cal Newport has some other interesting anecdotes on studying, such as how he was able to get the best grade in his Discrete Mathematics class, and the rest of the site is
full of advice on studying, how to schedule yourself and deliberate practice. My personal advice is to first always get the errata for what you're reading, even course notes sometimes have errata on the author's page, and always take sometimes have errata on the author's page, and always take sometimes have errata for what you're reading, even course notes sometimes have errata on the author's page, and always take sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes sometimes have errata for what you're reading, even course notes are not expected as a final part of the errata for what you're reading and even course not even course not expected as a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading a final part of the errata for what you're reading 
For example many people want to relearn math they forgot, so they start working through some enormous 1000+ page pre-calculus book and lose interest after the first few chapters. Instead make the goal to learn calculus, and start there. The same goes for learning algorithms, make the goal you want to solve problems in competitive programming
or you want to build something impossible and need to learn how to make it possible, now it's a research project to learning fundamental algorithm design techniques that will keep you interested. If you want to learn this material with a community, some anons have started a Discord channel. MIT's the missing semester of your CS education covers a
lot of things you'll eventually need to know. Editors such as emacs/vim are also introduced here. The 1980s book The Unix Programming Environment by Kernighan & Pike walks through Awk/Grep/Sed and shell scripting too. I've rewritten this entire section into it's own site, if you have little experience want to try to learn PAPL Programming and
 Programming Languages from scratch and a few other courses, try the AI workshop I work through Brown's CS019 class from scratch and Tao's Analysis I, plus many other topics. They're poor quality notes but the idea is if you get stuck on something, you can look at them. "So I went to Case, and the Dean of Case says to us, it's a all men's school,
 "Men, look at, look to the person on your left, and the person on your right. One of you isn't going to be here next year; one of you is going to fail." So I get to Case, and again I'm studying all the time, working really hard on my classes, and so for that I had to be kind of a machine. In high school, our math program wasn't much, and I had never heard
of calculus until I got to college. But the calculus book that we had was (in college) was great, and in the back of the book there were supplementary problems that weren't assigned by the teacher. So this was a famous calculus text by a man named George Thomas (second edition), and I mention it especially because it was one of the first books
published by Addison-Wesley, and I loved this calculus book so much that later I chose Addison-Wesley to be the publisher of my own book. Our teacher would assign, say, the even numbered problems, or something like that (from the book). I would also do the odd numbered problems. In the back of Thomas's book he had supplementary problems,
the teacher didn't assign the supplementary problems; I worked the supplementary problems. I was scared I wouldn't learn calculus, so I worked hard on it, and it turned out that of course it took me longer to solve all these problems than the kids who were only working on what was assigned, at first. But after a year, I could do all of those problems
in the same time as my classmates were doing the assigned problems, and after that I could just coast in mathematics, because I'd learned how to solve problems (Don Knuth ) Try the new Math Foundations from Scratch experimental curriculum we'll try and teach ourselves the math needed to try most of the courses here. The reasons I've rewritten
this section a dozen+ times is because I've yet to find anything that satisfies the condition of "is this a self learner?" so I'm just going to wing it and write my own. Even if it fails you'll still be able to confidently do any of the discrete math resources here. You only learn math by doing it, so in the beginning it's nice to have few solutions but eventually
you should figure it out yourself and you will be better off for it so my (terrible) proof hint walkthrough's will decline as we go but the thing is, you won't need them anymore. This Cornell OCaml course is totally self contained with it's own textbook. You will want to archive the entire course locally using wget. The release code for the assignments
wget them here and change URL to /a4/a4.zip, /a3/a3.zip, they range a0.zip - a5.zip (Full Course) CS 3110 Data Structures and Functional Programming The free textbook is essentially the lectures, the notes have recommended chapters for additional books like Real World Ocaml and have exercises. Introduction to Coq, you can extract OCaml from
Coq, F* or from Why3 Every spring/fall semester their gitbook is updated, search for the latest version See this talk Effective ML how to properly write interfaces, error handling It is possible in a functional language like ML to do algebra with types, proving two types are isomorphic with the desired properties of reflexivity, symmetry, and transitivity.
It's also possible to abstract Lists and Trees into polynomials, as every polynomial looks like a sum of terms. As you will learn in 15-150 Principles of Functional Programming "most functional datastructures have constant time access near the outer layer of their structure, ie: the head of a list or the root of a tree. However, access at some random
point inside the structure is typically linear in the length of the list, and looking at some element of a tree is linear in the depth of the tree. Datatype derivatives allow constant time access to the entire structure." Wildberger has a series of intuitive lectures to understand this topic geometrically in the
 affine space that I highly recommend as no artificial constraints are imposed like an origin (0,0) and some of this is surprisingly advanced you won't find in regular linear algebra courses. (Full Course) CS053 - Coding the Matrix Covers interesting applications like what was shown in Great Theoretical Ideas in Computer Science when you learned how
a parity bit works. No formal prerequisites except assumes you know how to do basic proofs. Uses Python. A lot of linear algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the complex field This free book Linear Algebra over the 
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take it), so my recommendation is get Artin's blue book and look on youtube for Harvard's Abstract Algebra course from a few years ago it's still a great course many are recorded with slides and screen like this course. Good advice on writing mathematics, introduces
LaTeX. Cornell has a similar class with complete lectures notes though if your math background is very weak I recommend working through Chapter 2 and 3 of Terrence Tao's Analysis I to learn to write your own proofs constructing the natural numbers before trying this book. This book covers most of the topics in courses 15-251 and 15-150, and
 teaches you to write proofs as programs. If you don't know how to program this book will teach you by modeling math functions in SML, polynomials into lists, sets into types, creating relations and proving their results with programs. This is a crash course in multiple topics such as Probability, Linear Algebra, Modular Arithmetic, Polynomials,
Cryptography and Complexity Theory. 15-251 assumes students have completed An Infinite Descent into Pure Mathematics though it is self contained. The best part about this course is old exams with solutions, and extensive notes. "[Computer science] is not really about computers - and it's not about computers in the same sense that physics is not
really about particle accelerators, and biology is not about microscopes and Petri dishes...and geometry isn't really about using surveying instruments. Now the reason that we think computer science is about computers is pretty much the same reason that the Egyptians thought geometry was about surveying instruments: when some field is just
getting started and you don't really understand it very well, it's very easy to confuse the essence of what you're doing with the tools that you use." (Hal Abelson) This covers architecture from a programmer's perspective, such as how to write cache friendly code/optimizations, assembly, how compilers work, return oriented programming (ROP) to
bypass stack protections, the memory hierarchy, and networks. You could read K&R's The C Programming Language for a brief intro, though this course will explain C as you go anyway and fully covers pointers at the assembly language level making it self contained. MIT teaches OS engineering using a rewrite of the sixth edition Unix(v6) similar to
 the classic Lions' Commentary but in ANSI-C called xv6. The idea is you read the source as you read booklet, to understand the system. There is also a schedule of lecture notes. The latest xv6 source and text are available via: git clone git://github.com/mit-pdos/xv6-book.git MIT's 6.004 course covers
git://github.com/mit-pdos/xv6-riscv-book.git If you have problems building the book, get the pdf How the computing, economic and sociological worlds are connected. This series of recorded lectures by Cornell professor Nate Foster on functional Network Programming, will cover the modern theory and practice and introduce you to an entire new
 world of thinking about networks by developing (or using) customized domain specific languages. No background outside of familarity with OCaml/SML-like syntax is needed though the 15-213 course contains a basic introduction to computer networks if you want. I didn't include any standard network class you can easily find books on this.
Interesting post on the future of database systems by Andy Pavlo. CMU abandoned Peloton and now is building a new disk-oriented storage prototype for education called BusTub DB. At the end of the semester the grading scripts are publically available. Here are the (poor) notes I took for MIT's 6.148 Web Programming Competition and MIT's 6.170
Software Studio. I did most of these assignments on a phone using Eruda since I wrote this while on lunch breaks. The MIT workshop and 6.170 are actually pretty good, giving you just enough to make a MVP yourself, expecting you to fill in the rest of the details on your own now that you know the basics of express, react, CSS etc. This is probably
the best course here that enables you to immediately start freelancing after so you can get paid and then continue to learn more. (Full Course) 15-388 Practical Data Science analysis: data collection and processing, data visualization and presentation,
statistical model building using machine learning, and big data techniques for scaling these methods. Cornell also has a free text with interactive jupyter notebooks (in Python) Jupyter 
documentation. This course teaches the Python libraries, but you can do the assignments in Julia if you want, or experiment in OCaml A draft book Foundations of Data Science The idea for including this came from this post about creating something everyday. (Lecture Notes) 15-322 Introduction to Computer Music Mainly just slides but the books
they recommend are extremely thorough if you want to learn manipulating sound with algorithms Nyquist is a Lisp Learn how Autechre made songs like Krib They even perform a 'laptop orchestra' every year (the animations on the screen in the background are from 15-104 Princeton also has a laptop ensemble To learn what a network ensemble is,
see the Oxford Handbook to Computer Music on libgen MIT also has several books and a new laptop ensemble course starting fall 2019 There's some more notes around but largely these kinds of courses are fully closed behind credentials/paywalls. A classic introductory computer science book on thinking about the big picture of programs with
abstraction: finding general patterns from specific problems and building programs based on these patterns. An applied example of this is the package manager GNU Guix and distro GuixSD, which is a GNU implementation of the NixOS functional software deployment model. Package builds, including entire system builds, are declared in one text file.
The resulting software deployment is functional: build inputs go in such as compilers, customizations, environments ect, and a reproducible, immutable build comes out with a hashed identifier meaning you can do roll backs to previous successful builds. A recent GUixSD feature gexp (g-expressions) is a good example what can be achieved through
syntactic extensions of the Scheme language. You are more likely to benefit from this book after having some programming experience, but no matter what level of programming that minimize catastrophe during failure. The Little Prover is a good introduction
in determining facts about computer programs. Prof Rob Simmons can be hired as a tutor to teach you Coq, the curriculum follows the Software Foundations book series by Andrew Appel, learn by doing
 Assumes you have read these chapters of Software Foundations Part I: Preface, Basics, Induction, Lists, Poly, Tactics, Logic, IndProp, Maps, (ProofObjects), (IndPrinciples) A good introduction to Dependent Types by Dan Licata is here or The Little Typer book. (Full Course) 15-424 Foundations of Cyber-Physical Systems Course (with recorded
lectures) if you're interested in programming drones/space shuttles/robots/cars and other things that cannot fail from avoidable errors. Self contained, will teach you differential eq but assumes you already have some calculus background. Unlike a traditional introduction to algorithms and data structures, this puts an emphasis on thinking about how
 algorithms can do multiple things at once instead of one at a time and ways to design to exploit these properties. It uses a language based analysis model to estimate complexity for abstractions such as garbage collection. (Book) Parallel and Sequential Algorithms (LibGen has the most recent version) Complete, self-contained book with exercises used
 view of functional programming." Note how pattern matching makes implementing these seemingly complicated structures a much easier task. The Design and Analysis of Algorithms by Kozen (1992). This is an excellent book to study with difficult
problems well presented and clearly analyzed by Kozen. If you want a book to practice design by Jon Kleinberg and Éva Tardos contains 200+ problems and how to design solutions for them. (Full Course) CS224 Advanced Algorithms Recorded lectures by Prof. Jelani Nelson walking through the design and analysis of online
 algorithms, linear programming, approximation algorithms, hashing, randomized algorithms. This is a graduate introduction to quantum algorithm bounty's. (Full Course) 15-859BB: Quantum Computation Recorded lectures on YouTube. The
preregs are an undergrad background in complexity theory (15-251 or 15-455), linear algebra, and discrete probability. "90% of the understanding of the quantum circuits; reversible classical circuits; and randomized computation" A series of curated papers on
 Quantum Computing If this topic interests you, Gerald Jay Sussman & Jack Wisdom's book teaches differential geometry using Scheme as a foundation for quantum field theory or general relativity. NJ Wildberger additionally has a set of introductory lectures. If you've taken 15-213 Computer Systems or 6.004 RISC-V Architecture, and understand
graph algorithms you will understand this course (with a lot of extra work), as it covers performance analysis, instruction-level optimizations, and other techniques for high performance, scalable systems. The course is done in C but the concepts apply to any language. Notice there's a button for "Export Materials ZIP". 18.642
 also has an older course on Open CourseWare with lecture videos. You may also find interesting this Quantitative trading summary and this old post on pricing & hedging models. This service matches your skills to people who want to pay you. Jane Street Capital is a finance tech company that hires functional programmers worldwide, you may want to
apply there. There are numerous opportunities to apprentice as a security researcher. There are also bounties for writing features available on topcoder, gitcoin or bountysource or (unfortunately 'regionally paid') outfits such as toptal, which tend to use codility tests for filtering candidates. Do your own research on the current state of these outfits,
through glassdoor or other employee review sites. A large collection of remote job listing and consulting platforms is here. If you enjoy research look up research programming positions at a university near you. You get hired to a grant funded team of grad students and post-doc researchers. Sometimes they are just hiring for people to build a proper
user interface for the doctors accessing a dataset, or you could be doing data visualizations, or statistical computing, or even engineering experimental software. Depending on the work you are doing, they may even write you a letter of recommendation meaning you can use this to apply to a grad school or hustle another programming research
position. . Read these slides from A Theorist's ToolKit on how to find research, how to give a talk, where to ask on stackexchange etc. The gist of this paper is explained here, CHiTT is a constructivist take on math foundations building an expressive enough model so they can build the next generation of proof assistants but
as you can see from the gist it will definitely have other applications. Start with this talk A Functional Programmer's Guide to HoTT being insufficiently
expressive for programming, but everything you learn in this seminar will be necessary to understand computational higher type theory papers like the magic of paths extending other programs. (Full Course) Homotopy Type Theory Self-contained HoTT book contains all the background material
 needed Thierry Coquand also has seminars in constructive algebra, and univalence Follow the research on Robert Harper's CMU page or see CMU's Principles of Programming Languages Summer School, search through Google Scholar for
computational/cubical higher type theory research. I created a seperate AI workshop where eventually we will work through CS4780 or CMU's 10-601. There used to be a course here but it was credentialed and recorded lectures deleted. You can still watch Berkeley's CS188 on Youtube, with Norvig's new 4th edition book out in 2020, and make it
more rigorous by taking Sussman's grad course reviewing older papers with unsolved problems or deep ideas, like his own Art of the Propagator paper and implementation. There is also AI readings to explain intelligence from a computational point of view both these are nice compliments to a typical AI course covering interesting ideas. A series of
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 Strang has a free book on MIT OCW Calculus with a chapter on vector calculus. Strang now has a big picture of Linear Algebra lectures. (Full Course) 36-705 Intermediate Statistics The author of All of Statistics The author
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you basic skills to decide which learning algorithm to use for what problem, code up your own learning algorithm and evaluate and debug it. "Anything that doesn't make sense look it up in the Mathematics for Machine Learning free book There is also Cornell's advanced ML class (Full Course) 10-715 Advanced Introduction to ML Most recent version
 here uses mostly the same recorded lectures. Fast paced curriculum intended to prepare PhD students in the ML grad program to write research papers Some slides on the practical techniques needed for working with large datasets Cornell's CS6780 is more accessible as a more advanced course in ML Same professor of 10-715 now teaches 10-708
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