
EDUCATION

Stanford University B.S., Computer Science, Major GPA: 3.88 Sep 2014 - Dec 2017

- **Courses:** Algorithms, Systems, Networking, Artificial Intelligence, Machine Learning, NLP, Security, Cryptography, Database
 - **Skills:** JavaScript (+ React, Node, Electron, Flow), Python (+ Django), C++, C, Java, Swift, Git, Bash, SQL, HTML, CSS, Sketch
 - **Activities:** CS106 Section Leader, Stanford Cycling, Asia-Pacific Student Entrepreneurship Society, Stanford Sports Analytics
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WORK EXPERIENCE

Facebook Software Engineering Intern Jun 2017 - Sep 2017

Focused on making code deployment more efficient and less error-prone. Learned a lot about how to build large systems.

- Implemented a distributed system that ran build tasks on remote machines. Designed the spec and protocol on my own.
- Wrote CLI scripts in Node to streamline deployment process. Coworkers had told me their level of happiness increased. :-)
- Worked on a yet-to-be-released feature in React/Electron, a Service Worker cache, and a WebAssembly experiment.

WhatsApp Software Engineering Intern Jun 2016 - Sep 2016

Built several critical features for the web team. Used a lot of React, Node, Electron, and Flow in an ES6 Javascript codebase.

- Implemented encrypted video streaming using AES-CBC block decryption. Let users play encrypted videos without waiting.
- Integrated browser crypto algorithms to WhatsApp's end-to-end encryption system. Increased encryption speed by 15x (!).
- Added a Verify Security Code feature where users could verify chat's encryption status by uploading or scanning a QR code.

CodeHS Software Engineering Intern Jun 2015 - Sep 2015

Led two high-impact projects at CodeHS, a startup changing the way Computer Science is taught at K-12 schools.

- Built a video chat feature using WebRTC, where students could ask tutors questions inside a browser, without extra plugins.
- Developed a collaborative code editor and code runner, allowing tutors and students to exchange feedback in real time.
- Enabled 100,000 students who were learning Computer Science to get live, face-to-face help whenever they needed it.

Warner Music Freelance Full Stack Developer Mar 2011 - Jun 2013

Automated the data analysis process for the marketing department of the largest music records company in the world.

- Wrote code that processed GBs of iTunes sales reports and turned them into structured data that could be queried quickly.
 - Designed and developed multiple sales dashboards with sortable and filterable tables, interactive charts, and heat maps.
 - Saved each marketing analyst 1 hour per day from manual data entry, slow data lookup, and esoteric Excel magic tricks.
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RESEARCH/PERSONAL PROJECTS

Deep Learning with NLP: a research paper exploring question answering with a Bidirectional LSTM Attention Flow model.

- Produced a 53.5 EM, 64.4 F1 scores on test set, within 70% of state-of-the-art model's accuracy. Paper: stanford.io/2hVYyRH.

iTunes Instant: an instant search engine for iTunes's songs, movies, TV shows and apps; served 400,000 users in 7 years.

- Generated significant revenue from iTunes affiliate program. Featured in Mashable, Gizmodo, Fast Company, Inc. Magazine.

Artsy Editor: a WordPress editor for professional writers; profitable since day 1 and has 400 paying customers to date.

- Built a distraction-free editor with a smart formatting box, drag-and-drop image uploading, and one-click image editing.
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TEACHING, SPEAKING, LEADERSHIP

Section Leader/TA: for 8 straight quarters, I taught sections for intro to CS classes, graded exams/projects, held office hours.

TEDx Speaker: I presented my thoughts on the future of young entrepreneurship and innovation at a local TEDx speaker event.

Launchpad Director: I led a successful year-long rebranding effort for a Stanford entrepreneurship event with a team of 5.