

Mobile (510) 918-2926

Address 450 Serra Mall, Stanford, CA 94305

# STEPHEN OU

stephenou.com

Email me@stephenou.com

Github github.com/stephenou

---

## EDUCATION

---

### Stanford University

Computer Science, GPA: 3.88

2014 – 2018

- **Courses:** Algorithm Design & Analysis, Data Structures, Artificial Intelligence, Computer Systems, Networking & Concurrency
- **Skills:** Python (+ Django), Ruby (+ Rails), JavaScript (+ node.js & jQuery), C, C++, Java, Git, Unix, HTML, CSS, UI design
- **Activities:** CS198 Section Leader, Asian Student Entrepreneurship Society, Stanford Cycling, Stanford Sports Analytics

---

## WORK EXPERIENCE

---

### CodeHS

Software Engineering Intern

Jun 2015 - Sep 2015

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

- Developed a server-less video chat feature, where students can ask tutors questions face-to-face alongside the code editor.
- Implemented real-time code collaboration and execution, allowing tutors to communicate with students more efficiently.
- Created an internal week planning application. Built a grade book page for teachers to view student progress.

### Alameda County

Software Engineering Intern

Jun 2013 - Sep 2013

Built an employee shuttle tracking and route planning application. Used by 10,000 employees at Alameda County.

- Wrote an algorithm to calculate waiting time at each stop based on current shuttle location and traffic condition.
- Developed a custom route planner that combines the shuttle schedule, AC Transit bus schedule, and BART train schedule.
- Won the National Association of Counties Technology award, given to only 1 county per year to recognize innovation.

### Warner Music

Freelance Programmer

Sep 2010 - Jun 2013

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

- Wrote scripts that processed GBs of iTunes sales reports and turned them into structured data that can be queried quickly.
- Built a sales dashboard with multiple sorting criteria, date filters, interactive charts, heat maps, and spreadsheet reports.
- Saved each marketing analyst 2 hours every day from manual data entry, slow data lookup, and Excel file processing.

---

## PERSONAL PROJECTS

---

**iTunes Instant:** an instant search engine for iTunes's songs, movies, TV shows and apps; served 400,000 users in 5 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 200 paying customers to date.

- Built a distraction-free editor with an inline formatting box, drag-and-drop image uploading, and one-click image editing.

**NeedNumbers:** a tool to auto-import contacts from "Lost My Numbers" Facebook groups into a smartphone.

- What used to be 30 minutes of manual data entry can be done in 30 seconds with few clicks. Featured in TechCrunch.

**TwtRoulette:** a web app that allows Twitter users to view other people's home timeline and discover new friends.

- 5000 signups in 1st week, including Ashton Kutcher. Featured in TechCrunch, Forbes, Business Insider, The Huffington Post.

---

## LEADERSHIP & AWARDS

---

**Section Leader:** teach intro to computer science to a section of 12 students, grade exams & assignments, hold office hours.

**SIA Director:** organized a 4-day workshop for high school students to learn about entrepreneurship, design, coding, business.

**TEDx Speaker:** presented my thoughts on the future of young entrepreneurship, with 2000+ views and 40+ likes on YouTube.

**Young Entrepreneur Award:** given by National Federation of Independent Business to only 2 students in California every year.

**Next Programming Star Club Founder:** grew from 5 to 70 members; taught web development to local high school students.