

Stephen Ou

Address 531 Lasuen Mall, P.O. Box 13022, Stanford, CA 94309

Mobile 510-918-2926

Email me@stephenou.com

EXPERIENCE

Alameda County

Software Engineering Intern

2013

Developed an employee shuttle tracking and route planning application. Used by 9000 county workers. The app won the National Association of Counties Technology award, given to only 1 county per year to recognize govtech innovation.

- Wrote an algorithm to calculate waiting time at each stop based on current shuttle location and traffic condition.
- Developed a custom route planner by combining shuttle schedule, AC Transit bus schedule, and BART train schedule.
- Led the 3-intern team that independently built the app in 10 weeks. Directed meetings. Planned development timeline.

Warner Music Group

Freelance Programmer

2010 – 2013

Automated the data analysis process for the marketing department of the largest recording company in the world. The system saves each marketing analyst 2 hours every day from manual data entry, slow data lookup, and Excel file processing.

- Built a powerful dashboard of sales data that allows multiple sorting criteria, date filters, and location selections.
- Optimized database and algorithms for fast insertion, update and search of 20 million rows of data by more than 75%.
- Added data visualization by constructing an interactive chart for market trends and a hotspot map for regional sales.

EDUCATION

Stanford University

Computer Science major

2014 – 2018

- Coursework: Programming Abstractions (Accelerated), Computer Systems, Probability for Computer Scientists

PROJECTS

iTunes Instant: an instant search engine for iTunes's songs, movies, TV shows and apps; served 400,000 users in 5 years.

- Used CodeIgniter framework to query and process data from iTunes API. Used jQuery for front-end instant result display.
- 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.

- Designed distraction-free interface with inline formatting box, drag-and-drop image uploading, and one-click image editing.
- Developed with PHP, JavaScript, CSS, HTML. Practiced object-oriented programming to integrate with WordPress.

SocialBusinessCard: a tool designed for college students to convert social profiles into real business card designs.

- The app provides an elegant design and fills in the card content from social profiles (Facebook, Twitter, LinkedIn).
- Created the card layout using the Canvas feature in HTML5. Integrated with APIs of 3 major tech companies.

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

- The app pulls text updates from Facebook API, parses out the numbers, generates a vCard file, sends it to a user's phone.
- 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.

SKILLS

Proficient: C++, Java, PHP, JavaScript, HTML, CSS, R; Familiar with: Ruby, Python; Learning: Objective-C, Swift

LEADERSHIP & AWARDS

Silver Medal, Alameda County Hackathon: won 2nd place and \$1500 as the only high school team in a pool of 55 hackers.

TEDx Speaker: presented my thoughts on the future of young entrepreneurship, with 1800+ views and 40+ likes on YouTube.

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

President, Next Programming Star Club: grew from 5 to 70 members in 2 years; taught HTML/CSS/JS to high school students.

INTERESTS

mathematic, autonomous vehicle research, data science, HCI, geocaching, DSLR photography, magic trick, cycling