ZACHARY LIOU

UC San Diego 2018
B.S. Math: Computer Science
GPA: 3.43

CONNECT

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SKILLS

LANGUAGES (EXPERIENCED):

JavaScript, C, C++, Java, HTML/CSS

LANGUAGES (FAMILIAR):

PHP, SQL, Python, Ruby, SPARC, MATLAB

FRAMEWORKS:

AngularJS, Node.js, Express.js, Bootstrap, JQuery, Ionic, Symfony, Twig, Android, Django, Rails

TOOLS & MISC:

Git, AWS, Ansible, Jenkins, Vagrant, UNIX, nginx, Vim, PhpStorm, GIMP, project team management, data structures & algorithms

AFFILIATIONS

Tau Beta Pi
Phi Delta Theta
Gordon Scholars

EXPERIENCE

Software Engineering Intern @ Google (YouTube)
June 2017 - Sept 2017
Utilized: JavaScript, Polymer, Jasmine, Protocol Buffers

- Revamping YouTube's video review queue management system for administrators, with emphasis on infrastructure maintainability and code health
- Redesigned the UI with Polymer to adhere to Google's Material Design standard
- Conducted user interviews to gain insights into boosting admin productivity
- Proposed large-scale engineering solutions for fighting community abuse
- Composing design documentation, with intention of longevity and clarity

Software Engineering Intern @ Track Revenue
June 2016 - Sept 2016, Dec 2016 - Jan 2017
Utilized: JavaScript, PHP, AngularJS, AWS, Ansible, Symfony

- Engineered a framework for automating backups of AWS EBS Instances, with integration into Jenkins, reducing annual overhead by approximately $60,000
- Built a bot detection system that increased meaningful traffic and ad revenue
- Developed an easily customizable website, which the sales team utilized in personalized marketing for each potential client
- Integrated a notification system into the user interface that cleared visual clutter and allowed users to easily track their service usage

Co-Founder @ Egge
May 2015 - June 2017
Utilized: AngularJS, Node.js, Express.js, SQLite, Ionic

- Co-founder, CTO, and full-stack developer at Egge
- Accelerated at the Basement at UC San Diego
- Managed a team of software engineers and business development interns, through synchronized technical and business deadlines and milestones
- Mentored beginner technical interns in web development & project management
- Enhanced user experience by focusing on streamlined and responsive design
- Participated in conferences and showcases, including the Startup Grind Global Conference, attracting the attention of angel/VC investors and potential clients

PROJECTS

Curvature May 2016 - Present
Utilized: Python, Django

- Django app that combines stock market data, Twitter sentiment analysis, Azure machine learning, and other APIs to find financial market trends

Cooki March 2016 - June 2016
Utilized: Java, Android, GIMP

- Managed deadlines for a team of classmates in the nine-week delivery of a meal-planning Android app
- Designed a time-saving user experience, allowing users to plan weeklong meal plans with a minimal amount of clicks

Personal Website zachliou.com

OTHER EXPERIENCE

Secretary @ Phi Delta Theta at UC San Diego
April 2016 - March 2017
Utilized: Python, Javascript, HTML/CSS, GIMP

- Created simple scripts to answer questions simple to computers but time-consuming for humans, dramatically reducing personal workload; e.g. "given a roster and unsorted attendance list, who isn't here?"