Alexander S. Rosengarten

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EDUCATION

University of California, San Diego, La Jolla, CA — Graduated June 2016
B.S., Cognitive Science (Major GPA: 3.64) and Computer Science (Major GPA: 3.61). Overall GPA: 3.44

TECHNICAL SKILLS

Experience	Language	Technology
Proficient	ARM Assembly, C/C++, HTML/CSS, Java, Javascript, Matlab, Python	Adobe Creative Suite, Android Studio, Angular.js, Arduino, Git, Ionic, Unix
Learning	Ocaml, R, Scala, Verilog	Postgres SQL, Spring MVC, SVN

WORK EXPERIENCE

Software Engineering Intern — March 2016 - Present
Ingenu, San Diego, CA
- Developing single-page web application with AngularJS framework. Have ample experience writing controllers, services, factories, directives, and filters.
- Setup unit test runner (Karma). Writes unit and integration tests with Jasmine and Protractor.
- Optimizing application load time via minimizing file sizes, lazy loading, and CDNification.

Software Engineer — December 2015 - June 2016
Guardiome, La Jolla, CA
- Principal Front-end Engineer at 23andMe-like, genetic privacy company.
- Developed Python based GUI for Helixa, a genome privacy and exploration tool (Python).

Mobile App Development Intern* — June 2015
Illumina, La Jolla, CA
- Worked on Hybrid Android App front-end on BaseSpace team (Angular.js, Ionic, Typescript).
- *Left internship early for medical reasons.

Paid Research Assistant — June 2013 - September 2015
Natural Computation Laboratory, UCSD Dept. of Cognitive Science, La Jolla, CA
- Developed BrainTag: open source neurofeedback game for children with Autism (Arduino, C).
- Wrote data visualization and machine learning toolbox for open source brain-computer interface system (Python, Java, C, Javascript).

Computer Science Tutor — April - June 2013, August 2014
UCSD Computer Science Department, La Jolla, CA
- Spring 2013, Matlab Programming: Tutored students, debugged code, graded exams and assignments.
- Summer 2014, Systems Programing: Tutored students in C and ARM Assembly programming course, implemented on Raspberry Pi. Found errors and debugged code (ARM, C, Raspberry Pi).

CLASS PROJECTS

Forward 135 - Full Stack Developer — April - June 2014
Server-Side Web Applications Course, La Jolla, CA
- Built a full-stack architecture for efficient change propagation from the server all the way to the client as a part of a research and class project. Worked in a team of three. (Javascript ES6, PostgreSQL
- Core idea of project: only send the changes to a database to each client via WebSockets (Javascript ES8, Webpack, PostgreSQL Triggers and Materialized Views, Socket.io).
- https://github.com/bfalk8/forward135

In-Ear EEG - Software Team Member — April - June 2015
Embedded Systems Project Course, La Jolla, CA
- Worked in team to create In-Ear EEG device for people with epilepsy.
- Wrote machine learning code with a partner to detect presence of epileptic seizures (Matlab, OpenBCI).
- Built server that stores 20 minutes of brainwave data once seizures are detected (Python, SQLite).

COURSEWORK

- Advanced Data Structures
- Advanced Machine Learning
- Algorithms
- Compiler Construction
- Computer Vision
- Neural Networks
- Operating Systems
- Programming Languages
- Server-Side Web Applications

EXTRA-CURRICULAR ACTIVITIES

Founding Member, *Data Science Student Society* — November 2014 - September 2015
Summer Research Scholar, *Qualcomm Institute/Calit2* — June - August 2013
President, *Cognitive Science Student Association* — August 2012 - January 2014
Coordinated Cognitive Science Conference — April 2013