

ALAN Z. CHEN

13521 Silver Ivy Lane San Diego, CA 92129 | (858) 207-8890 | alanchen832@gmail.com
www.linkedin.com/in/alanchenz/ | www.github.com/alanchenz

EDUCATION

University of California, San Diego

B.S. Computer Science
Cumulative GPA: 3.12/4.0

San Diego, CA
Expected Graduation: June 2018

Notable Courses: Data Structures, Algorithms, Database Systems, Programming Languages/Paradigms, Computability Theorem, Operating Systems, Computer Architecture, Artificial Intelligence, Data Science, Computer Security

SKILLS

Languages & Frameworks: Java, JavaScript, C++, C, Python, Perl, C#, Node.js, AngularJS, PHP, MongoDB, MySQL, PostgreSQL, ASP.net, ARM Assembly

EXPERIENCE

Learning Equality

Software Development Intern

San Diego, CA
Sept 2017 – Present

- Provided assistance in optimization of the Python- and Javascript-based web application Kolibri, an open-source platform that provides offline, self-paced learning resources for students in areas with limited connectivity
- Improved UI/UX of application through frontend development of Kolibri using the Vue.js framework and Webpack
- Worked with Python backend using Django and SQLite

Hologic Inc.

Software Engineering Intern

San Diego, CA
Jun 2016 – Aug 2016

- Created a web-based lab tool that displays medical test results in tables and graphs with Node.js, C#, MongoDB, and Google Charts
- Researched pros/cons of various client-side and server-side architectures (JavaScript, AngularJS, Express.js) for cross-platform lab tool integration
- Developed tools in C# to identify where spikes in hindering activity occur when running the testing machines

EMC Corporation

Software Intern

Beijing, China
Jun 2015 – Aug 2015

- Created automated test scripts for localization in Perl
- Parsed various file types and converted them to XML

Delta Product Corporation

Software Intern

San Diego, CA
Jun 2013 – Aug 2013

- Created Android applications to work with geolocation data and GPS functions to integrate with company tools

PROJECTS

Network Security | Python/Wireshark/TCP/IP

Oct 2017 – Dec 2017

- Successfully carried out man-in-the-middle attacks on a mini network by viewing TCP/IP packets through Wireshark and then manipulating the packets as desired
- Injected iframes into targeted HTML pages while manipulating server to accept changes to the packets

Web Security | PHP/PostgreSQL

Oct 2017 – Dec 2017

- Created a simple blogging website with user login capabilities that emphasizes web security concepts, using PHP
- Reinforced security of website by utilizing salted password hashing and eliminating vulnerabilities against various web attacks, such as SQL injections, XSS attacks, and CSRF token attacks

League of Legends Win Predictor | Python

Oct 2017 – Dec 2017

- Scraped large datasets of League of Legends games from the Riot API to predict a win or a loss based on random character selection, using various models of training and validation
- Trained a model using SVMs to achieve up to 70 percent accuracy in predicting results of a game

Broommates | Android

Oct 2015 – Dec 2015

- Developed an application that distributes responsibilities to members of an apartment with Java, Android Studio, JavaScript, Python, Flask, Django, and MongoDB
- Implemented a responsive front-end using Android Studio

INVOLVEMENT

Eagle Scout (BSA), Taiwanese American Student Association, Badminton, Ping Pong, Tzu Ching