

ALEX LIN

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EDUCATION

Bachelor of Computer Science, University of California San Diego
Cumulative GPA: 3.86

Expected 2022

COURSEWORK

- **CSE100 - Advanced Data Structures** - Use and implementation of data structures like (un)balanced trees, graphs, priority queues, and hash tables. Also, memory management, pointers, recursion.
- **CSE101 - Design/Analysis of Algorithms** - Design and analysis of efficient algorithms such as sorting, searching, pattern matching, and graph and network algorithms. Measuring complexity of algorithms, time and storage. NP-complete problems.
- **CSE110 - Software Engineering** - Led a team of 8 students to create a Pomodoro Timer Web Application using vanilla HTML/CSS/JavaScript. An emphasis on team development, agile methods, and use of tools such as IDE's, version control, and test harnesses.

TECHNICAL SKILLS

Programming Languages	Python, Golang, Java, C++, JavaScript
Web Technologies	REST, HTML5, CSS, Node.js, Express.js
Data Management	MongoDB
Other	PowerBi, Git/GitHub, Agile

EXPERIENCE

Software Engineer, Intern Jun 2021 - Sept 2021
Salesforce - Rackbot Team *San Francisco, CA*

- Developed new features for Rackbot - a collection of microservices used to setup new server racks at a Salesforce data center.
- Implemented power cycling through PDU devices to reboot targeted bare metal servers in Salesforce data centers and integrated these operations into a command line interface.
- Eliminated manual intervention from server build/reimage/repair workflows, saving potentially several hours to several days of downtime.
- Utilized: Golang, Agile, MongoDB, Git/GitHub, Linux

Software Engineer, Intern Jun 2020 - Sept 2020
Toyota Financial Services - Information Digital Systems *Frisco, TX*

- Developed Python scripts to automate Vulnerability Management reports by interacting with the Qualys API.
- Saved over 20 hours of labor per month by automating security reports through PowerBi, interacting with the CrowdStrike REST API, and pulling data from ServiceNow.
- Developed a framework for parsing reports and storing data in a MongoDB database.
- Utilized: Python, PowerBi, MongoDB, Git/GitHub, REST API, Linux, CrowdStrike, Qualys, Agile

Research Assistant Feb 2020 - June 2020
William Pensyl Lab *Boston, MA*

- Developed Python scripts to allow serial communication between a Raspberry Pi and a MaxMSP executable.
- Communicated expectations and development progress remotely from CA to Boston, MA.
- Scripts were used in an interactive art display for the finals of Arte Laguna in Venice.
- Utilized: Python, Linux, Git/GitHub, Raspberry Pi