Joshua Lee

Contact

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Coursework

- Data Structures & Algorithms
- Computer Systems
- Discrete Math
- Linear Algebra
- Calculus I-III
- Physics: Mechanics, Electricity & Magnetism, Light, Heat & Waves

Skills

- Java, C++, Python, C
- HTML, CSS, JavaScript
- Linux, Git

Activities

- ACM Hack, Cyber
- Creative Labs
- Kristos Campus Ministry
- UCLA HaCK at Transfer Bridge
- Stanford heath++ Hackathon
- IM Volleyball
- Summer Missions

Education

University of California, Los Angeles   Expected: June 2022
Computer Science, B.S.

West Valley College   May 2020
Physics, Mathematics, AS-T   GPA: 4.0

Experience

Software Development Intern
Ciena Corp. (San Jose, CA)   May 2019 – August 2019
- Added validation of a profile's default URL as an IPv4 address utilizing regular expressions in C
- Verified functionality of third-party server bug fixes by designing and running test cases
- Improved image validation process by developing Python touch test

Shift Manager
Pinkberry (San Jose, CA)   August 2017 – May 2019
- Led 3+ employees each shift while ensuring team demonstrated strong communication skills, teamwork and excellent customer service
- Managed and maintained inventory stock

Projects

Autonomous Tracking Smart Car (UCLA HaCK)   September 2020
- Worked 40+ hours in a team of three to assemble a car that avoids obstacles and maps a model of the terrain
- Developed Arduino code that autonomously drives the car around an arena and tracks obstacles using ultrasonic sensors
- Retrieved real-time sensor data using Bluetooth and graphed a sketch of the course onto a Python GUI using Tkinter

Sudoku Game & Solver (Personal)   August 2020
- Designed an interactive Sudoku game and solver in C++
- Incorporated a recursive backtracking algorithm to efficiently solve valid games

Spreadsheet Data Visualizer (Personal)   May 2020 – June 2020
- Utilized Google Sheets' API to access an online Google spreadsheet and retrieve its data
- Created a Java Swing GUI that dynamically graphs imported data and allows a customizable color scheme

Flashcard Studying Tool (Personal)   July 2019 – September 2019
- Replicated a flashcard studying tool using file manipulation and I/O operations in Python
- Implemented functions to edit new and past projects via regular expressions