

WESLEY LUU

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Education

California Polytechnic State University, San Luis Obispo

Bachelor of Science in Computer Science

Expected June 2024

San Luis Obispo, CA

Technical Skills

Programming Languages: Python, Java, C Programming, SQL, Assembly(RISC-V), HTML, React

Developer Tools: Github, VS Code, LTspice, Xilinx Vivado, Bash, Linux

Software: GitHub, Microsoft (Word, PowerPoint, Excel)

Tech Skills: Function Generator, Multimeter, Oscilloscope, DC Power Supply.

Hardware Skills: SystemVerilog/Verilog, Experience in Soldering, Experience in FPGA and PCB design

Relevant Coursework

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|-----------------------|--------------------------|----------------------------|---------------------|
| • Data Structures | • Systems Programming | • Computer Architect. | • Databases |
| • Discrete Structures | • Circuit Analysis 1,2,3 | • Digital and Logic Design | • Computer Networks |

Experience

California Cybersecurity Institute (Cal Poly ITS)

April 2022 – Present

Software Developer

San Luis Obispo, CA

- Revamped legacy code of previous discord bots into modern, maintainable, and robust code for future development. Fixed internal structure and UI/UX functionality which allowed users to understand the bot intuitively and drastically reduced the number of errors a user can make.
- Where the bot verified over 200+ students in the competition and handled over 100+ support ticket sent by the student
- Utilized Microsoft Planner for effective communication on tasks assigned, presented progress in weekly meetings for constructive feedback, and incorporated sprints to stay on schedule.

Projects

Rcopy (Networks School Project) | C

Winter 2023

- Created an Client Server Program, communicating over UDP. Where the server forks a new program every-time a client connects
- The Client requests a filename and the file to be copied over from the server. The server sends the file data packets with UDP using the sliding window technique.

Covid Bot | Python

2nd Place @ Cisco Hackathon Spring 2021

- Worked on a team of three and created a python program that sends users by phone or email open covid vaccine appointments within user radius and done so by filling a google form
- Worked with google forms and sheets API to manipulate with user data input
- Worked on the chatbot that scanned user's questions and looked for patterns within them. Based on the pattern the bot will answer the user's covid question using a web scraper(Parse Hub)

Dragon Rush | Java

Spring 2021

- Started with a large messy code-base. Converting the code-base from procedural to object oriented programming, and after doing so changed the theme to dragons for the game and used A* star algorithm for enemy tracking in the game.

Singify | Python

1st Place @ SLO Hacks Hackathon Fall 2021

- A "finish the lyrics" game using Spotify, YouTube Transcript, and YouTube Search APIs, coupled with speech recognition and visual machine learning.
- Worked with Google's teachable machine to differentiate between right hand raise and left hand raises.

Awards / Extracurricular

Robotics

Fall 2021 – Present

Software Team Member

Cal Poly SLO Robotics

- * Helping with the development of Life-Size R2-D2, currently working on serial transfer of data.
- * Making sure that the data sent is the same as the data received.

Yugioh Club

Fall 2022 - Present

Club Member

- * A game where I have been playing for over 10 years, and participate in weekly tournaments

Presidential Dean's List

- * Dean's List: Fall 2020, Fall 2021, Spring 2022