Doris Wei

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EDUCATION

University of California, Santa Barbara Santa Barbara, CA
Bachelor of Science in Computer Science, College of Engineering *Expected June 2023*
- **GPA**: 3.85 | Deans Honor, All Quarters Offered
- Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Objected Oriented Programming, Multivariable Calculus, Linear Algebra, Automata, Formal Languages, Assembly Language, Computer Organization and Logic Design, Computer Networking
- Organizations: Institute of Electrical and Electronics Engineers, Taiwanese American Student Association

RELEVANT EXPERIENCE

Early Research Scholars Program, Computer Architecture Sept 2021 - Present
University of California, Santa Barbara *Santa Barbara, CA*
- Working in a team of 3 at the UCSB Arch Lab on a year-long project building a fake check-pointing mechanism through means of 'Dead Code Elimination' using RISC-V architecture.

Undergraduate Learning Assistant, CMPSC 32 Mar 2021 – Jun 2021
University of California, Santa Barbara *Santa Barbara, CA*
- Mentored students in C++ and advanced topics in object-oriented computing.Topics include encapsulation, hiding, inheritance, polymorphism, compilation, linking and loading, memory management, and debugging
- Assisted students in scheduled lab sections and drop-in lab hours to discover solutions to problems and modeling study strategies
- Reviewed and updated weekly lab assignments and homework assignments to ensure coherence and assist with grading

Software Engineer Intern Jun 2020 – Aug 2020
CMOS Sensor Inc. *Cupertino, CA*
- Tested Laser Distance Sensors (LDS) and modules sensors and worked with high volumes of data
- Utilized optical fingerprint sensing technology to check for the accuracy of fingerprint stitching programs
- Created user manuals that covered Raspberry Pi and performances of the Fingerprint Image Sensor

PROJECTS

Community Based Map | *JavaScript, HTML/CSS* Mar 2021
- Scrum Master of a team of five developers for a community based map used to connect people together by locations
- Implemented frontend with ReactJS, backend with NodeJS and ExpressJS, and used MongoDB as database
- Used Google OAuth to access Google APIs as well as to create a working login system

Discord Bot | *Python* Apr 2021 – Mar 2021
- Developed a discord bot for recreational use between friends that primarily interacts with Discord.py
- Implemented 10+ commands, experimenting with several different APIs
- Deployed and hosted the bot using Heroku and Github

To-do List | *Ruby on Rails* Dec 2020 – Jan 2021
- Developed an web application using Ruby on Rails that allows user to track multiple goals on a daily, weekly or monthly basis
- Worked with SQL commands as well as RESTful API's to access and use data
- Created the web user interface by using a Model-View-Controller

TECHNICAL SKILLS

Programming Languages: C++, Python, Java, MIPS Assembly, JavaScript, SQL (Postgres), HTML/CSS, Ruby, Swift
Frameworks: React, NodeJS, Springboot, JUnit Ruby on Rails
Platform and Tools: Heroku, Git, GitHub, Jupyter Notebook, VS Code, Visual Studio, IntelliJ, Eclipse
Languages: English, Chinese, Korean, Japanese