

Xiaolin Ma

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EDUCATION

University of California, Davis

September 2020 - June 2024

Bachelor of Science, Computer Science | Minor in Technology Management

GPA: 3.86

- Extracurricular Activities: CodeLab, Theta Tau, #Include, HackDavis, Davis Undergraduate Engineering Network
- Coursework: Data Structures & Algorithm, Web Programming, Object-oriented Programming, Operating Systems, Artificial Intelligence, Computer Architecture, Managing & Using Info Tech, Machine-dependent Programming

WORK EXPERIENCE

Verizon / Software Engineering Intern - Sacramento, CA

June 2023 – Present

- Implementing an administration screen for Verizon Connect's scheduling portal using React, Spring, SCSS, NodeJS, automating 70% of the appointments by replacing manual phone scheduling.
- Present to SVP and more than 10 executive leaders of the company, building public speaking and communication skills.

UC Davis Energy and Engineering Department / Web Developer - Davis, CA

March 2023 – Present

- Develop features for full-stack web applications that can be accessed by over 30,000 students and faculty on campus
- Implemented an admin dashboard to edit water usage data and developed an API to update the database
- Write GraphQL resolvers to extract data from MongoDB and display data on the front-end

Keysight Technologies / Software Development Engineering Intern - Santa Rosa, CA

June 2022 – September 2022

- Developed Python sample programs for the product help page and improved examples in VBScript, C/C#, and other languages. Delivered over 15 sample programs to the customer base that generated \$5.4B in revenue during Q3 of 2022.
- Built a web-based data simulator using Angular to visualize complex instrument data on Keysight's cloud storage platform. Implemented a RESTful API point to retrieve cloud data and employed TypeScript to parse the data.
- Reduced visual graphical representations of cloud data operation time by 10 minutes.

HackDavis / Lead of External Affairs Director - Davis, CA

March 2022 – Present

- Collaborate with a team of 35 directors to plan a 36 hour hackathon for 800+ participants.
- Spearhead the planning and execution of school-wide workshops and activities for a diverse student body, fostering a vibrant community of like-minded individuals and enhancing engagement for HackDavis by 12%.
- Cultivate strong partnerships with 30+ external organizations and personnels.

Intel Corporation / Front-end Development Intern - Folsom, CA

June 2019 – September 2019

- Streamlined the process of fetching and organizing 300+ files to increase efficiency of the team's design process, by developing a web page with HTML, CSS, and JavaScript
- Collaborated with the engineering team to acquire proficiency in UNIX commands, Perl, VBScript, and Python scripting.

PROJECTS

User-level Threading Library

October 2022

- Developed a user-level threading library in C with concurrency and synchronization capabilities, such as creating, yielding, and exiting thread. Created a data structure to queue and dequeue threads in the library.
- Implemented round-robin preemptive scheduling to control the threads and prevent starvation in threads.

Video Ranking Application

April 2022

- Designed and created a full-stack web app that allowed 300+ users to rank TikTok videos and find the best video, supported by HTML, CSS, JavaScript, SQLite, Node.js, and Express.js.
- Stored and retrieved 1000+ video by implementing a backend with Node.js and Express.js, and a ranking metric in SQLite using PageRank Algorithm.

SKILLS & INTERESTS

- **Programming Languages:** C/C++, C#, JavaScript, TypeScript, Python, HTML/CSS, SQL, Bash.
- **Frameworks and Tools:** React.js, Node.js, SQLite, MongoDB, Angular, Git, Visual Studio, Next.js, Figma, Bootstrap, CI/CD, UNIX/Linux, Excel, Express.js, Valgrind, x86 Assembly, Object-Oriented design.