

Max Lan

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EDUCATION

University of Washington

Seattle, WA

Bachelor of Science in Electrical and Computer Engineering

Sep. 2022 – Jun. 2026

- Relevant Coursework: Data Structures and Algorithms, Algorithms and Computational Complexity, Discrete Mathematics, Linear Algebra, Computer Architecture, Systems Programming, Database Systems, Hardware/Software Interface, Embedded Systems

EXPERIENCE

Software Engineer

Dec. 2023 – Present

Eat Together, University of Washington

Seattle, WA

- Improved student connectivity through developing the Eat Together app, leveraging React Native and Firebase to facilitate shared meals.
- Enhanced user security by implementing authentication measures that reduced unauthorized access attempts, using Firebase Authentication and Firestore.
- Increased user satisfaction in app ratings by collaborating with the design team to create intuitive and accessible user interfaces across iOS and Android platforms.

Software Engineer

Sep. 2023 – May 2024

Web Impact, University of Washington

Seattle, WA

- Expanded digital presence for Seattle communities by creating websites that attracted over 100 users, utilizing React and Next.js to develop a dynamic web page for salmon murals.
- Improved website performance by reducing load times by 40% through collaborating with a team to optimize a high-traffic webpage for robust performance and user-centric functionality.

Firmware Engineer

Sep. 2022 – Mar. 2023

Husky Robotics, University of Washington

Seattle, WA

- Accelerated hardware development process through utilizing Altium Designer for PCB layout and design in robotic systems.
- Enhanced team collaboration efficiency by reducing code conflicts through implementing version control practices using GitHub to manage project codebases.
- Improved firmware-hardware alignment by reducing integration issues through interpreting and analyzing schematic sheets to understand and document hardware configurations.

PROJECTS

Save Our Salmon | *React.js, JavaScript, HTML/CSS, Figma, Vercel, Git*

- Designed and implemented interactive and responsive web pages and ensured cross-browser compatibility and responsiveness across various devices using React, Figma, and Vercel.
- Created and managed the website's photo gallery section, serving over 100 users with dynamic content and engaging visual elements.
- Collaborated with a team to optimize the website for performance and user engagement.

Recommendation Buddy System | *Firebase, JavaScript, HTML/CSS, React Native, Expo*

- Created efficient, stable matching algorithms to analyze user preferences and provide personalized dining partner recommendations.
- Ensured efficient synchronization of user profiles and interactions, supporting the dynamic updating of recommendations.
- Incorporated features such as user feedback collection, customizable preferences, and notifications to enhance user satisfaction and engagement.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript/TypeScript, HTML/CSS, MySQL, Bash/Shell Script

Frameworks: React, React Native, Node.js, Firebase, MongoDB, Express, Tailwind, SCSS

Developer Tools: Git, GitHub, Visual Studio Code, Visual Studio, IntelliJ, PyCharm, Expo, Xcode

Libraries: pandas, NumPy, Matplotlib, Seaborn