

Education

Pullman, WA	Washington State University	Fall 2022 – Spring 2026
<ul style="list-style-type: none">• B.S. Computer Science, Minor in History & Mathematics - Expected Graduation May 2026 - 3.77 GPA• Recipient of WSU University Achievement Award and John W. and Anna M. Scott Fund for Academic Excellence scholarship.• Coursework: Systems Programming; Databases; Algorithms; Data Structures; Computer Architecture; Software Engineering; Calculus III.		

Experience

Founder	MashWiki	June 2025 – Present
<ul style="list-style-type: none">• Built and deployed a full-stack web application that recommends Wikipedia articles through semantic search, processing and indexing 100,000+ articles using text embeddings and cosine similarity.• Designed and implemented a Node.js and PostgreSQL backend deployed on AWS EC2, scaling to 100+ registered users within two weeks of launch.• Developed a responsive React Native frontend with dynamic content retrieval and real-time recommendation algorithms.		

Firmware Research Assistant	WSU	August 2024 - Present
<ul style="list-style-type: none">• Design, implement, and deploy a heat-controlled enclosure for agricultural research using Raspberry Pi, Arduino, LoRa wireless modules, thermocouples.• Develop a control algorithm in C++ to modulate a voltage transformer with stepper motors based on real-time temperature readings.• Built a React + Flask web dashboard hosted on Raspberry Pi 4 with Nginx for remote monitoring and wireless communication with the control systems.		

IT Operations Intern	PACCAR Parts	May 2025 - August 2025
<ul style="list-style-type: none">• Implemented a 3rd-party SaaS cloud printing application, allowing for native iOS printing and saving over \$50,000 annually from more efficient and quicker printing.• Wrote Powershell & Python scripts to automate the IT auditing of departments, reducing manual labor time by 30 minutes.• Monitored IT systems and processes of over 500 employees to ensure compliance with security standards and best practices.		

Projects

- **Personal Portfolio Site:** Built with React and Tailwind CSS to showcase projects, skills, and career goals. Featuring a dynamically generated nature background and typewriter text effects.
- **C# Spreadsheet:** A fully-functioning spreadsheet application, similar to Excel. Featuring formulas, expression evaluation, references, error-checking, undo/redo, customization, multiple variable support, saving and loading to XML, and more! Built in C#.

Languages and Technologies

- **Programming:** C++, C, Python, C#, SQL, TypeScript
- **Frameworks:** React, Express, Flask, React Native, HTML/CSS
- **Technologies:** UART, I2C, SPI, Arduino IDE, Raspbian, Git, GitHub, Linux, VS, VS Code, PostgreSQL