Daniel A. Martin

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Education

Oregon State University **September 2024 – June 2028**
Bachelor of Science in Computer Science *Corvallis, Oregon*
Applied Focus in AI *GPA – 3.97*

Relevant Coursework

- Data Structures
- Linear Algebra
- Analysis of Algorithms
- Web Development
- Vector Calculus
- Discrete Mathematics
- Statistics
- Calculus

Experience

Oregon State University College of Engineering **September 2025 – Present**
Undergraduate Learning Assistant *Corvallis, Oregon*

- Led lab sessions for over 100 students across multiple labs in Object-Oriented Programming, demonstrating core programming concepts, OOP design, and debugging techniques while helping students think algorithmically.
- Evaluated hundreds of programming assignments, provided constructive feedback, and assisted students in improving code efficiency, readability, and adherence to best practices.

TopTier **June 2025 – September 2025**
Software Engineer Intern *Portland, Oregon*

- Built a dynamic rate calculator to simulate palletizing throughput across a near-infinite range of box sizes, layout patterns, and machine configurations, enabling more accurate operational planning and resource allocation.
- Collaborated cross-functionally with mechanical, electrical, and manufacturing engineers to gather detailed system specifications and consolidated them into comprehensive spec sheets for a new automation machine.

Oregon State University STAR Lab **November 2024 – June 2025**
Undergraduate Research Assistant *Corvallis, Oregon*

- Collaborated in a research team to develop a portable, high-quality machine translation model using LLMs, contributing to overall project design, experimentation, and evaluation of model performance.
- Led fine-tuning efforts by adapting methods from recent research, identifying innovative strategies to optimize model performance under limited computational resources while maintaining accuracy.

Projects

AI Debate Platform with Fallacy Detection | *SKLearn, Agentic AI, Flask, React* | Libra **November 2025**

- Led the development of an agentic fact-checking model that makes use of google knowledge API and a custom fallacy-detection model that can find most common fallacies; both work together to return real-time debate feedback.
- Managed the project structure including designing UX and frontend with Figma and implementing in React, integrating backend API calls through a Flask server, and merging all 8 pull requests across the team during a 24-hour period.

Food Carbon Emission Scanner | *React Native, Open CV, Flask, Postgres* | FoodPrint **September 2025**

- Developed a React Native application for PennApps XXVI, integrating reusable UI components and Postgres database.
- Utilized Cerebras and Exa to enable web querying and advanced data analysis with 25 times faster inference time.
- Organized a Flask backend that runs a food detection model with OpenCV and conducts deep research on the output for a live feed of accurate information .

Leadership

AI Club **September 2025 – Present**
Event Coordinator *Oregon State University*

- Coordinated logistics and outreach for club events, including managing food, facilitating hybrid (in-person + Zoom) meetings, and supporting engagement for an audience of 80+ attendees.
- Initiated professional outreach efforts with industry experts and alumni to organize over 10 guest speaker events and networking opportunities for members in one term.

Technical Skills

Languages: C++, TypeScript, Python, Java, C, HTML/CSS, SQL, Dart
Technologies/Tools: GitHub, Unix, Microsoft 365, Firebase, Supabase, GCP
Libraries/Frameworks: React, OpenCV, TailwindCSS, Flask, Flutter