Karma Woeser

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Technical Skills

Languages: Python (4 years), JavaScript (3 years), C (3 years), Java (1 year)
Frameworks & Libraries: React, Flask, Pandas, NumPy, Scikit-learn, Tailwind CSS
Tools & Technologies: Git, Linux, Docker, Jupyter, Node.js, PostgreSQL, AWS, Jira, Selenium

Experience

Software Developer Jan 2025 – March 2024
ByteSized Reads – Team Project Eugene, OR

- Built and deployed a full-stack article curation platform used by 40+ students to save, tag, and revisit readings.
- Worked across the stack: developed backend endpoints in **Node.js**, integrated PostgreSQL queries, and built dynamic frontend views in **React**.
- Improved user experience with **React Query** for caching, background refreshes, and optimistic UI updates.
- Managed infrastructure with **Docker Compose** and deployed the stack on **AWS EC2**.
- Presented the platform to two separate user groups and gathered feedback to guide feature improvements.

Software Engineering Intern (Gen AI) June 2024 – August 2024
Cognizant Remote

- Assisted in the fine-tuning of models using **PyTorch** and evaluated performance to inform further optimization.
- Documented model behavior, tradeoffs, and testing results to support continued development.
- Used **Selenium** to test frontend integration and validate model output rendering.

Software Engineering Intern Sept 2022 – June 2023
UO Solar Radiation Monitoring Lab Eugene, OR

- Refactored **800+ lines** of legacy Perl into Python, improving code readability and reducing complexity.
- Automated data processing using **Python** and **NumPy**, increasing processing speed by ∼**15%**.
- Built internal tools to validate and transform data from 5+ solar monitoring stations across Oregon.
- Collaborated in an **Agile** environment participating in regular standups and iterative planning to improve project outcomes.

Projects

Fake News & Political Bias Detector | *Python, Scikit-learn, FastAPI, React, TypeScript*

- Built a full-stack web app to detect misinformation and political bias in news articles, using a text classification model that achieved a **98% F1-score** on 45,000+ samples.
- Developed a **FastAPI backend** to serve model predictions and handle article URL processing.
- Built a responsive **React and TypeScript** frontend for submitting URLs and displaying results.

GitRead – README Generator | *Python, Flask, React, Google Gemini API, GitHub OAuth*

- Used by **100+ students** on campus, making documentation easier for developers.
- Developed an automated tool that generates detailed README templates from GitHub repositories.
- Presented the platform to over **50 students** during final project demos and feedback sessions.

Heart Failure Predictor | *Python, Pandas, scikit-learn, Flask, React*

- Built a full-stack health app to estimate heart failure risk based on user symptoms and lifestyle factors.
- Designed a custom scikit-learn pipeline with mapping, scaling, and outlier handling for clinical features.
- Deployed a **Flask backend** for real-time predictions via user input.

EasyA – Grading Analysis App | *Python, Flask, JavaScript, MongoDB, Docker*

- Built backend **APIs** to process and filter grading distributions.
- Designed a **MongoDB** schema for efficient storage and querying of historical grading data.

CourseConnect – Student Enrollment API | *Java, Spring Boot, PostgreSQL*

- Built a backend API with Spring Boot to manage students, courses, and enrollment logic.
- Used **PostgreSQL** to store course metadata and enrollment records.

Education

University of Oregon Eugene, OR
BS in Computer Science Graduated: June 2025