# Karma Woeser

Portland, OR | karmawoeser1@gmail.com | linkedin.com/in/karma-woeser | github.com/kwoeser | kwoeser.netlify.app

#### Technical Skills

Languages: Python (4 years), JavaScript (3 years), C (3 years), Java (1 year)

Frameworks & Libraries: React, Flask, Express, Pandas, NumPy, Scikit-learn, Tailwind CSS Tools & Technologies: Git, Linux, Docker, Jupyter, Node.js, MongoDB, PostgreSQL, AWS

# EXPERIENCE

Cognizant

June 2024 – August 2024

Generative AI Intern

Remote

- $\bullet \ \ \text{Assisted in the fine-tuning of models using } \textbf{PyTorch} \ \ \text{and evaluated performance to inform further optimization}.$
- Documented model behavior, tradeoffs, and testing results to support continued development

## **UO Solar Radiation Monitoring Lab**

Sept 2022 – June 2023

Software Engineering Intern

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.

### EDUCATION

# University of Oregon

Eugene, OR

BS in Computer Science, Minor in Math

Graduation Date: June 2025

Coursework/Clubs: Leet Club, Data Structures and Algorithms II, Machine Learning, System and Security Administration, Software Engineering

#### 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.

Article Curation Platform | TypeScript, React, Node.js, PostgreSQL, Tailwind CSS, Docker, AWS

- Has been used by 50+ students to save and manage their favorite articles.
- Built a React frontend with optimized API requests using React Query for caching and background updates.
- Deployed on AWS EC2 using Docker Compose with a self-managed PostgreSQL instance.

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.
- Integrated secure GitHub authentication via Flask-Dance for a smooth login experience.

Lung Cancer Risk Predictor | Python, Pandas, NumPy, scikit-learn, FastAPI, React, TypeScript

- Built a full-stack health app to estimate lung cancer 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 FastAPI backend and React frontend for real-time predictions via a clean user form.

EasyA - Grading Analysis App | Python, Flask, JavaScript, MongoDB, Docker

- Built backend **APIs** to process and filter grading distributions.
- Integrated Chart. is to create interactive, real-time grade trend visualizations.
- Designed a MongoDB schema for efficient storage and querying of historical grading data.

AI Chatbot | React, Express, Clerk API, Google Gemini API

- Developing a full-stack AI chatbot application using **React** for the frontend and **Express** for the backend, integrating **Google Gemini AI** for NLP.
- Implemented Clerk for user authentication and management, enabling secure user sign-ups and logins.