

Karma Woesser

Portland, OR | karmawoesser1@gmail.com | linkedin.com/in/karma-woesser | github.com/kwoesser | kwoesser.netlify.app

TECHNICAL SKILLS

Languages: Python, JavaScript, C, Java

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

EXPERIENCE

Cognizant

June 2024 – August 2024

Generative AI Intern

Remote

- Supported the design and fine-tuning of **Generative AI models** under mentorship
- Utilized frameworks like Hugging Face Transformers and PyTorch for training and evaluating LLMs.
- Analyzed performance metrics across tasks to support model deployment decisions for internal tools.

UO Solar Radiation Monitoring Lab

Sept 2022 – June 2023

Data Analyst Intern

Eugene, OR

- Refactored legacy **Perl** scripts to improve readability and maintainability across data pipelines.
- Developed data collection scripts to ensure data integrity across multiple monitoring stations.
- Automated data processing using **Pandas** and **NumPy**, improving efficiency in analyzing station data.
- Participated in **data collection** efforts, retrieving solar radiation data from various stations across Oregon.

PROJECTS

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

[App Link](#)

- Developed a tool to analyze potential misinformation and political bias in news articles.
- Trained a text classification model for identifying patterns in fake news, achieving **98% F1-score** on a test set of over 8,800 articles.
- Built a responsive **React and TypeScript** frontend for submitting URLs and displaying credibility analysis.

House Prices Predictor | *Python, Flask, Pandas, scikit-learn, Matplotlib*

[Github](#)

- Built a **machine learning pipeline** to predict house prices using a dataset of 1,460 homes and 79 features.
- Created a **Flask API** to integrate the trained machine learning model.
- Optimized Random Forest and Gradient Boosting models using GridSearchCV, reducing **RMSE by 10%**.

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

[App Link](#)

- 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*

[App Link](#)

- 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.

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

[App Link](#)

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

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

[Github](#)

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

EDUCATION

University of Oregon

Eugene, OR

BS in Computer Science, Minor in Math

Graduation Date: June 2025

Coursework/Clubs: **Leet Club**, Computer Architecture, **Data Structures and Algorithms II**, Operating Systems, **Machine Learning**, System and Security Administration, **Software Engineering**, Linear Algebra, Discrete Math