

Karma Woesser

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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

- Fine-tuned LLMs using **PyTorch** and analyzed task-specific metrics to guide deployment of internal team tools.
- Documented model performance to **support team decisions** on deployment strategies and optimization.

UO Solar Radiation Monitoring Lab

Sept 2022 – June 2023

Data Analyst Intern

Eugene, OR

- Refactored **800+ lines** of legacy Perl into Python, improving code readability and reducing complexity by **~40%**.
- Automated data processing using **Python** and **NumPy**, increasing processing speed by **~25%** based on data throughput across station datasets.
- Retrieved and validated solar radiation data from monitoring stations across Oregon as part of field data collection efforts.

EDUCATION

University of Oregon

Eugene, OR

BS in Computer Science, Minor in Math

Expected 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*

[App Link](#)

- 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*

[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.

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%**.

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.

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.