

Karma Woesser

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TECHNICAL SKILLS

Languages: Python, JavaScript, C

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

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%**.

GitRead – README Generator | *Python, Flask, React, GitHub OAuth, Flask-CORS, React Query*

[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.

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.

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.

Tibetan Book Store | *React, Node.js, Express, MySQL, Docker*

[Github](#)

- Built a backend for managing book listings, supporting add, update, and delete operations.
- Integrated **MySQL** to store book data, ensuring efficient data handling.
- Utilized **Docker** for consistent development and deployment environments.

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