

EREN Y. GUL

www.erenyilmazgul.com | www.linkedin.com/in/erenyugul | (859) 452 8287 | gule@berea.edu | github.com/eygul

EDUCATION

Berea College

Computer Science & Economics

Berea, KY

Aug 2021- May 2025

- **Scholarship:** Berea College Tuition Promise Full-Ride Scholarship (\$220,000 value), Noyan Tanberk Scholarship (\$17,675/year)
- **Relevant Coursework:** Data Structures and Algorithms, Software Design and Implementation, Open-Source Software Engineering, Human Centered Computing, Intro to Autonomous Systems, Electricity and Electronics, Calculus I, Discrete Math, Principles of Microeconomics, Principles of Macroeconomics
- **Technical Skills:** Python, JavaScript, C++, HTML, CSS, REST API, Flask, Django, React, Next JS, Express JS, Docker, Databases, Bootstrap, Tailwind CSS, Agile, Scrum, Git, Linux, NumPy, Pandas, PyTorch, Transformers

WORK EXPERIENCE

NextGen Justice

Backend Engineering & AI Research Intern

San Jose, CA

Jun 2024 – Aug 2024

- Collaborated with a team of interns to develop an innovative tool for fine-tuning, evaluating, and performing inference with Large Language Models using the Huggingface Transformers library, addressing the company's need for a previously non-existent solution
- Created specialized datasets and fine-tuned custom AI models, resulting in significantly improved model performance and enabling more accurate and efficient AI inference in the legal field.
- Designed, implemented, and deployed database servers using MongoDB, and Flask for internal performance data gathering.
- Designed and implemented metrics collection pipelines in Python, working synchronously with database servers to enhance the efficiency of fine-tuning processes.
- Designed and implemented frontend and backend microservices for deploying the organization's AI tool using React, Next JS, and PostgreSQL.
- Contributed to the organization's code base with 2000+ lines of code in 4 different repositories.

Runestone Interactive

Open-Source Intern

Berea, KY

June 2023 – August 2023

- Utilized industry standard tools and technologies including Git, Linux, WSL, Python, HTML, CSS, and JavaScript in an agile and scrum workflow to contribute 780+ lines of code for Runestone Interactive servers.
- Fixed bugs and enhance the interactive online textbook written in PreTeXt for Open-Source Software Engineering that 100+ students will use as their main course material in CSC 426 course in Berea College.

Berea College Computer Science Department

Teaching Assistant for CSC 226 – Software Design and Implementation Class

Berea, KY

Jan 2023 – May 2023

- Assisted, tutored, and graded more than 50 students about Software Design in Python.
- Rewrote and optimized course material to create better resources for the students.
- Wrote, tested and debugged software in Python and C++.

TECHNICAL PROJECTS / OPEN SOURCE

- **Turkish Earthquake Dashboard:** Built a suite of microservices including a REST API, a Python HTTP data aggregator, and a JavaScript frontend client to create a dynamic web app that updates itself every time an earthquake occurs in Turkey and visualizes key information like location and magnitude. Technologies used: **Python, Django REST Framework, BeautifulSoup, Regex, JavaScript, SQL**
- **AI Translator:** Developed a full stack AI translation application using T5 large language model trained on 223 million parameters that is capable of performing high quality translations between English, German, French, and Romanian. Technologies used: **Python, Transformers, Flask, JavaScript, React, Tailwind CSS, Daisy UI**

LEADERSHIP

Google Developer Student Clubs

Technical Lead

Berea, KY

Oct 2022 – Present

- Lead a team of diverse 20+ people to develop mobile applications and websites for the community members.
- Organize events like Hackathon challenges to promote technical problem solution on campus.

Berea College Student Government Association

Student Senator

Berea, KY

Sep 2022 – May 2023

- Manage, allocate and invest \$45,000 budget by collaborating with other elected senators.
- Organize events on campus to promote and enhance social life of 1600+ students on campus.
- Write and vote on new policies that will positively impact the lives of current and future students.