EREN Y. GUL

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EDUCATION

Berea College **Berea, KY**

Computer Science & Economics *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

Berea College Marketing & Communications Department **Berea, KY**

Web Developer *Aug 2024 – Present*

- Manage the official Berea College website (www.berea.edu) with 1500+ pages.
- Develop SEO strategies to increase the website traffic by 20% from 300,000 to 360,000 per month.
- Utilize WordPress plugins and LAMP stack to improve website functionality.

NextGen Justice **San Jose, CA**

Backend Engineering & AI Research Intern *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 **Berea, KY**

Open-Source Intern *June 2023 – Aug 2023*

- Utilized industry standard tools and techologies 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.

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, JavasScript, 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 **Berea, KY**

Technical Lead *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 **Berea, KY**

Student Senator *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.