Ethan Suleman

ethansuleman@gmail.com | 1-510-203-4081| linkedIn/esuleman | github/esuleman

EDUCATION

Purdue University West Lafayette, IN | Aug 2020 - Dec 2023

B.S. Computer Science

Coursework: CS180: Introduction to Java, CS193: Introduction to GitHub & UNIX, CS182: Discrete Mathematics, CS240: Introduction to C Programming, CS250: Computer Architecture, CS251: Data Structures & Algorithms, CS252: Systems Programming

WORK EXPERIENCE

PURDUE ECE CAM^2 × GOOGLE ML | Tensorflow Model Gardener West Lafayette, IN | Jan 2021

- Developing and deploying deep learning computer vision models into Google's Model Garden with TensorFlow 2.x and writing TensorFlow 2.x guidelines/technical documents within a paid special interest team sponsored by Google.
- Conducted a bug study as a research assistant to a PhD candidate looking into deep learning specific bugs and their related taxonomies. Later collected these bugs through a non-intrusive observation of various deep learning frameworks using GitHub Issue Tracker and classified them using the instrument the candidate had created.

PROJECTS

SOCIAL MEDIA PROJECT Java, MongoDB, Object-Oriented Design

Worked to create a social media platform within a team of 5. Mainly worked full stack, utilizing MongoDB to store, manage, and access user information quickly and efficiently on the back end while using built-in GUIs to create a welcoming user interface for the front end. Hosted platform on Purdue CS server using server-sockets and sockets to provide connections.

HTML PARSER C, HTML

Created an HTML Parser applying prior knowledge of C. Using file.io within C, I read the HTML file line by line, applying a tokenizer to identify wanted HTML tags while deleting the unwanted tags. I then implemented a stack data structure to store these tags such that I could push when an opening tag was found and pop when a closing tag was found. Using this method, I was able to output the text between wanted tags and strip the rest of the file.

CUSTOMER ORDER QUEUE Java, Object-Oriented Design

Created a program that takes in customer's orders and places it in a max-heap priority queue. Implemented functions to remove customers, update order times, and complete orders at the top of the priority queue. Also implemented a heapifying function to heapify the queue after deleting or updating a customer's order.

"STONKY CHAD" DISCORD BOT Python, API, Finance

Created for HelloWorld 2020 Hackathon. Created a discord bot able to give accurate observations on the stock market. Used Discord API to implement the bot as well as Finnhub.io API to get information about stocks based on their ticker name. If the prefix for the bot was called and a ticker name was specified, the bot will run simple calculations on information given by Finnhub.io and give a detailed observation on how the stock is doing based on performance in past quarters and volatility of the stock.

SKILLS

Languages: Java, C, C++, Python, UNIX, Bash, HTML, JavaScript
Developer Tools: GitHub, IntelliJ, PyCharm, CLion, VSCode
Related Technologies: Google Cloud, TensorFlow, PyTorch, flask, Node.js, Keras, Git, LaTeX
Libraries: MatPlotLib, NumPy, pandas