Muhammad Ammar

(425) 215-8794 | ammar.junejo0987@yahoo.com | Seattle, WA
Github | LinkedIn | Website

EDUCATION

University of Washington - Seattle *Seattle,WA*
B.S. in Computer Science *April 2021 - March 2024*

Awards: President's List, Dean's List, Graduated with Honors.
Relevant Coursework: Data Structures and Parallelism, Software Engineering, Computer Vision, Artificial Intelligence, Data Management, Systems Programming, Embedded Systems, Computer Security.

TECHNICAL SKILLS

Languages: Java, C, C++, Python, Typescript/Javascript, SQL.
Frameworks/Libraries: React, Next.js, Flask, FastAPI, Spring Boot, Matplotlib, Pandas, Pytorch, openCV, D3.js.
Databases: Azure SQL, Microsoft SQL Server, SQLite3, Clickhouse, InfluxDB.
Developer tools: Git, Linux, npm, Kubernetes, Docker, Airflow, Grafana, Prometheus, IntelliJ, Tableau, Colab.

PROFESSIONAL EXPERIENCE

Tesla *June 2023 - June 2024*
Software Engineer Intern *Fremont, CA*

- Developed and maintained multiple web applications to support cell engineering processes.
- Implemented and automated ETL pipelines for IoT sensors, storing and visualizing high-res time-series data.
- Developed a full-stack web application to run and monitor 100+ sensors on production equipment.
- Optimized production code by increasing bandwidth by 50% through port enabling and multiprocessing.
- Optimized data queries by 66% and developed a UI to visualize and compare critical equipment data.
- Automated scripts for historic data analysis using Airflow, improving efficiency and data accessibility.

PROJECTS

Car Classification | *Python, Pytorch, Jupyter Notebook, Colab, Neural Networks*

- Compared accuracy of different neural networks on Stanford's Car dataset (16,185 images).
- Optimized model achieved 99% training and 87% testing accuracy.

Campus Map | *Java, Typescript, Spark, React, Nodejs, REST API*

- Designed a web app that draws the shortest walking route between two campus buildings.
- Implemented Dijkstra's algorithm to find the shortest path among 50+ buildings.

Web Scraper | *Java, Jsoup, openCSV*

- Used Jsoup to read and extract data from URLs and openCSV to store it.
- Automated script to store specs of 100+ cars tested by an automotive magazine.

Reddit Bot | *Python, Praw, OpenAI, HuggingFace*

- Designed a bot that summarizes long posts and comments on reddit.
- Used Praw API to navigate reddit and machine learning models to summarize text.

NoCheat | *Python, Javascript, Flask, HuggingFace*

- Collaborated in a web application that uses a machine learning model to detect AI generated text.
- Model was able to accurately classify essays and other text files as human or AI generated.