Muhammad Ammar

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GitHub | LinkedIn | Website

EDUCATION

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

Awards: President's List, Dean's List.
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, Node, Flask, Spring Boot, Pytorch, TensorFlow, D3.js.
Databases: Microsoft SQL Server, SQLite, Clickhouse, InfluxDB.
Developer tools: Git, Bash, Kubernetes, Docker, Airflow, Grafana, VSCode, IntelliJ, Colab.

WORK EXPERIENCE

Software Engineer Intern | Tesla *June 2023 – Current*
- Collaborated with the cell engineering team to support and optimize the cell production process.
- Designed and developed a full-stack web app to run and monitor 100+ sensors on production tools.
- Built another full stack web app to assess production tools by providing real time updates and analysis.
- Optimized production code by increasing bandwidth by 50% through load balancing and multiprocessing.
- Automated scripts for historic data analysis using Airflow, improving efficiency and data accessibility.
- Created automated data pipelines for cloud-based storage, contributing to streamlined data management.
- Enhanced system reliability by automating code restart upon server shutdown.

Teaching Assistant | Shoreline Community College *October 2019 – April 2020*
- Collaborated with lead instructors to facilitate lectures and class discussions in a 50+ person course.
- Utilized effective communication skills to convey complex technical concepts in an accessible manner.

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, JSON, 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.