Muhammad Ammar

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GitHub | LinkedIn | Website

EDUCATION

University of Washington – Seattle, WA
B.S. in Computer Science
Expected Graduation: December 2023

Shoreline Community College - Shoreline, WA
Associate of Science
Graduated with Honors: December 2020
CGPA: 3.9/4

Awards: President's List, Dean's List.

RELEVANT COURSEWORK

Data Structures and Parallelism	Computer Security	Embedded Systems
Software Engineering	Distributed Systems	Artificial Intelligence

TECHNICAL SKILLS

Languages: Java, C, C++, Python, Typescript, PHP, SQL, HTML/CSS.
Frameworks/Libraries: React, Node, Flask,, Spring Boot, Pytorch, Docker, Kubernetes, Airflow
Databases: Microsoft Azure, SQLite3, Clickhouse, InfluxDB.
Developer tools: Git, Bash, npm, Jupyter Notebook, Colab, IntelliJ, VSCode, Grafana.

WORK EXPERIENCE

Tesla | *Software Engineer Intern* *June 2023 – Current*

- Built and deployed an inventory app to store and monitor 1000+ vibration sensors.
- Built and deployed a full stack tool checklist app to test equipment and make reports.
- Improved the preflight process by allowing time tracking capabilities and historic analysis.
- Optimized production code by increasing bandwidth by 50% through load balancing and multiprocessing.
- Automated scripts for historic data with airflow
- Implemented an auto restart feature to restart servers and report shutdowns.
- Enabled prometheus on the nucs and integrated grafana to monitor server health metrics.

Shoreline Community College | *Teaching Assistant* October 2019 – April 2020

- Assisted teachers in lectures and helped students individually in a 50+ person class.

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.