

ZOHAIR UL HASAN

www.zohair.dev

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EDUCATION

Drexel University

Bachelor of Science in Computer Science - GPA 3.86

Philadelphia, PA

Sep. 2019 – June 2024

EXPERIENCE

Susquehanna International Group

Software Engineering Coop - Corporate Systems

March 2023 – Sep. 2023

Philadelphia, PA

SAP America

Software Engineering Coop - Artificial Intelligence

March 2021 – March 2023

Philadelphia, PA

- Contributed to an open-source ML platform (ML Lab github.com/SAP/machine-learning-lab) that acts as a centralized hub for development teams to seamlessly develop, build, deploy, & operate ML solutions at scale
- Integrated an open-source solution, ML Flow, into ML Lab for tracking parameters, metrics & artifacts for each run using Python, FastAPI & React
- Created custom plugin in Python for ML Flow to seamlessly work with ML Lab's JSON and file storage
- Wrote tests for plugin using pytest to ensure quality/reliability
- Developed a Job Scheduler component that ran user specified jobs on a repeated schedule by parsing a cron string
- Implemented Readers-writer lock to avoid race conditions
- Debugged and fixed small issues with ML Lab using React and Python to improve user experience

Software Engineering Coop - Production Management Portals

- Developed and deployed a webapp, and an accompanying Terraform Provider written in Go to report virtual machines in use to SAP's internal auditing system
- Built a front end in vanilla JavaScript and a backend in Node.js
- Deployed apps using Docker and Kubernetes to improve reliability and scalability of the webapp
- Created Jenkins pipelines to automate the testing and deployment of the webapp and Terraform Provider by automatically pushing newly built webapp images to a registry and uploading the Terraform Provider executable to an Openstack objectstore
- Created a private Terraform registry to allow for easy Provider installation
- Wrote tests for the webapp and Terraform Provider using MochaJS, Selenium (Python) and Go to ensure quality/reliability
- Developed Ruby script to process billing data from Dynatrace and upload to Kibana for visualization and analyzation, reducing bill cost by 30%
- Wrote Terraform modules to improve productivity for employees

Drexel College of Computing and Informatics

Teacher Assistant

April 2021 – Current

Philadelphia, PA

- Created and sold a program designed to improve grading efficiency by a factor of 20 for \$500
- Helped students understand complex concepts in Computer Science and cleared confusions by attending regular office hours
- Graded student homework

PROJECTS

Drexel Scheduler | scheduler.zohair.dev | GitHub

Feb 2023 – Present

TECHNICAL SKILLS

Languages: Python, C#, JavaScript, SQL

Frameworks: .NET, Express.js, FastAPI, React

Developer Tools: Docker, Kubernetes, Terraform, GitLab CI/CD, Git