ZOHAIR UL HASAN

www.zohair.dev

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EDUCATION

Drexel University   Philadelphia, PA
Bachelor of Science in Computer Science - GPA 3.86   *Sep. 2019 – June 2024*

EXPERIENCE

Susquehana International Group   March 2023 – Sep. 2023
Software Engineering Coop - Corporate Systems   *Philadelphia, PA*
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SAP America   March 2021 – March 2023
Software Engineering Coop - Artificial Intelligence   *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 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 reliabliability 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   April 2021 – Current
Teacher Assistant   *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
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TECHNICAL SKILLS

Languages: Python, C#, JavaScript, SQL
Frameworks: .NET, Express.js, FastAPI, React
Developer Tools: Docker, Kubernetes, Terraform, GitLab CI/CD, Git