Noah LaFerriere

Software Engineer

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Denver, CO

SUMMARY

I am a Software Engineer with a demonstrated ability to identify problems and deliver effective solutions. 2+ years of experience designing, implementing and deploying software in private and public clouds. I've designed and built full stack web apps, QA test pipelines and various automation solutions.

EXPERIENCE

SDET 1

Cardinal Peak, C2C@WideOpenWest

11/2021 - Present | Denver, CO

Worked at WideOpenWest (WOW) as a contractor through Cardinal Peak. Created automated tests, test execution pipelines and monitoring systems for the WOW TV+ streaming app.

- Developed automated Python Appium test for iOS & Android that reduced manual regression testing time by 75%
- Observed outages that had been unknown until reported by customers, and designed and delivered Android Monitoring System (see projects) which eliminated customer identified outages 100%
- Developed containerized test execution pipeline and integrated with cloud-based device farms, creating fully automated and scalable testrunning system
- Developed and deployed testrunner dashboard to private cloud, allowing organization-wide access to the automated testing pipeline - this led to 33% increase in new bugs identified QoQ

Software QA Engineer

rTeam, One Health Solutions

12/2020 - 06/2021 | Pittsburgh, PA

Worked part-time remotely during my last college semester on a telehealth SaaS platform. Developed and maintained automated QA systems, and manually tested and resolved bugs with an offshore development team.

- Developed SMS failure notification system, ensuring constant availability of critical business logic
- Worked with clients to identify bugs, identified root causes and worked with development team to resolve
- Carried out smoke tests for new releases, documented bugs in Jira tickets and communicated issues to the offshore development team

Software Engineer Intern

VetNOW, One Health Solutions

05/2020 - 09/2020 | Pittsburgh, PA

Worked as a full-time intern over the summer for a veterinary telehealth SaaS startup. Wore many hats developing new software, containerizing existing software and developing automated QA systems.

- Identified CI/CD bottlenecks and delivered a containerized deployment pipeline and tooling for the VetNOW SaaS platform
- Researched, designed and implemented JavaScript solutions to integrate Bluetooth medical devices (ECG, Camera, SpO2) with the SaaS platform
- Developed Python QA testrunner and integrated with 3rd party reporting API
- Taught QA Engineers how to use Python and Selenium to create tests

Software Engineer Intern

Carnegie Mellon University, Robotics Institute

09/2019 - 05/2020 | Pittsburgh, PA

Worked 30 hrs a week on autonomous robots with a team of MS students under Dr. Sebastian Scherer. Invited and sponsored to travel to Abu Dhabi and compete for 2 weeks as a critical team member.

- Automated robot deployments and startups reducing startup time 10x
- Implemented error correcting watchdog scripts, resolving 100% of autonomous startup errors during competition
- Developed containerized data processing pipeline to enable training on a Slurm cluster, increasing training throughput 12x

EDUCATION

BS Computer Science

Univesity of Pittsburgh

09/2017 - 05/2021 | Pittsburgh, PA

- CS GPA: 3.5 | Overall GPA: 3.3
- Graduated Cum Laude

PROJECTS

Android Monitoring System

WideOpenWest

Microservice-based system designed to monitor critical user workflows for errors and present status and telemetry in a dashboard.

- Tech Stack: **Docker, Python, MongoDB, Appium, Flask, JavaScript, HTML/CSS**
- Built a containerized Android emulator and Appium testrunner to mimic user workflows
- Built a reporting backend with Flask and MongoDB by implementing a REST API
- Created a frontend dashboard application and supporting REST endpoints in the backend
- Integrated and deployed with docker-compose in a private cloud

StockStack

University of Pittsburgh

Full stack web application where users can sign up to add and track stock portfolios - created as a final project for Intro to Web Programming class.

- Tech Stack: **Python, Docker, GCP AppEngine, GCP Datastore, Flask, JavaScript, HTML/CSS**
- Developed a backend with Flask and GCP Datastore to implement a REST API and integrated with 3rd party APIs for data ingest
- Created frontend user interface and integrated with REST API
- Served as team lead

Racecar

Robotics and Automation Society - Univ. of Pittsburgh

Led a team that developed autonomy software on a 1/10th scale car

- Tech Stack: : **ROS, Docker, Python, C++, TensorFlow, Bash**
- Ran 2x weekly meetings for 15-student team
- Coordinated with sponsors to secure a $10,000 donation for a Velodyne Lidar
- Integrated sensors and low-level controls with ROS

SKILLS

Python | **Linux** | **Docker** | **Cloud**

Appium | **Selenium** | **Bash** | **Git**

Flask | **MongoDB** | **GitLab** | **ROS**

AWS | **GCP** | **Jira** | **Xray** | **Zephyr**