

Noah LaFerriere

Junior Software Engineer

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Pittsburgh, PA - Willing to relocate

EXPERIENCE

Quality Assurance Engineer

rTeam, One Health Solutions

12/2020 - 06/2021 Pittsburgh, PA

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

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

Software Engineer Intern

VetNOW, One Health Solutions

05/2020 - 08/2020 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 QA systems.

- Dockerized and built deployment pipeline and tooling for the VetNOW SaaS platform (Apache, Symfony, MySQL, Angular)
- Researched, designed and implemented JavaScript solutions to integrate Bluetooth medical devices (ECG, Camera, SpO2) with web platform
- Developed JavaScript graphing utility to visualize ECG waveforms
- Developed Python QA testrunner server and integrated with 3rd party reporting API
- Taught QA Engineers how to use Python and Selenium to create tests, created CI/CD pipeline to integrate new tests with the testrunner

Software Engineer Intern

Carnegie Mellon University, Robotics Institute

09/2019 - 05/2020 Pittsburgh, PA

Worked 30 hrs a week during my junior year of college. I worked on competition (MBZIRC) robots with a team of MS students under Dr. Sebastian Scherer and Dr. Oliver Kroemer. Sponsored to travel to Abu Dhabi as a critical team member.

- Automated robot startup sequence with Python and Bash scripts, reducing startup time 10x
- Implemented error detecting and correcting scripts with ROS to ensure smooth startup
- Created automated data collection scripts to increase testing efficiency
- Developed containerized data processing pipeline to enable training on a Slurm cluster, increasing training throughput 12x
- Trained and optimized YOLOv3 object detectors that achieved 90% accuracy in competition

SKILLS

Languages (Most to least experienced)

Python Bash Javascript Java C C++

Technologies

Linux Docker Git ROS GCP AWS

EDUCATION

BS Computer Science

University of Pittsburgh

09/2017 - 05/2021

- Departmental GPA 3.5 | Overall GPA: 3.3
- Graduated with Honors

PROJECTS

StockStack

02/2021 - 04/2021

<https://www.noahlaf.me/projects/stockstack/>

Final Project for my Intro to Web Programming class

- Web application created with: Python, Flask, GCP AppEngine and Datastore, JavaScript, HTML/CSS
- Integrates with 3rd party APIs to display data about relevant stocks
- Users can create stock portfolios and the app will calculate the historical performance and current net worth
- Served as Team Lead on my 3-person team

Machine Learning Toolkit

10/2020 - 12/2020

https://www.noahlaf.me/projects/ml_toolkit/

Final project for my Intro to Cloud Computing class.

- Created with: Docker, Docker-compose, Python, Bash, JavaScript, HTML/CSS
- This was an open-ended project where I was told to containerize common machine learning applications and create an interface that allows users to run the containers
- Containerized ~10 applications, created microservice architecture using docker-compose to orchestrate services, and created web server capable of launching containers on the host

Pitt RAS - Racecar

06/2019 - 01/2020

<https://www.noahlaf.me/posts/pittrac/>

Served as Team Lead for Pitt RAS's autonomous vehicle project. Developed autonomy on a 1/10th scale car with ROS.

- Led team of 10 students and led 2x weekly team meeting
- Created subteam structure to enable new members to learn and start contributing quickly
- Coordinated with sponsors to secure a \$10,000 donation for a Velodyne Lidar
- Integrated sensors with ROS (IMU, encoder, camera, Lidar)
- Created embedded controls system and integrated with ROS
- Created TensorFlow cone detection system, optimized for 3x performance on onboard computer
- Successfully achieved autonomous object detection