Michael Nash Luffman

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Education

University of North Carolina at Charlotte — December, 2019
GPA: 3.63/4.0 — Bachelor of Science in Electrical Engineering

Experience

IBM – DevOps Engineer*;* Durham, North Carolina — 01/21/2020 – Current

- Managed backups, alerts, and dashboards of Kubernetes monitoring solution (Sysdig) via Python.
- Containerized a Python web-scraping application that reports Prometheus metrics, orchestrated using docker-compose.
- Developed a serverless Slack bot written in NodeJS to serve API calls.
- Assisted in daily operations of several development, staging, and production IBM Cloud Kubernetes clusters.

Qorvo – *Data Systems Engineer;* Greensboro, North Carolina — 5/21/2019 – 8/9/2019

- Developed and maintained in-house MVVM-patterned software to generate data reports for characterization engineers.
- Improved dynamic SQL queries performance by 7-times in a C# code-base.
- Stream-lined development environment setup for team to under two hours.
- Wrote stored procedures and other database administration tasks for development and production servers.
- Utilized teams GitLab to work on an issue-driven version control cycle.

Wolfspeed – *RF Test Engineer Intern;* Durham, North Carolina — 5/21/2018 – 8/10/2018

- Developed a VB.Net application to generate, execute, and export a SQL query based on user-selected parameters.
- Utilized JMP to maintain statistical process control charts and perform gage R&R studies for automotive audit.
- Created a VBA solution that generates test routines and pushes them via FTP server.
- Practiced management of various semiconductor test equipment, including calibration and verification.

Academic & Personal Projects

Cloud-Based Music Production Tool

- Lead a team of 4 students to build a cloud-based music production tool.
- Responsible for implementation of technical stack for application on Amazon Web Services.
- Managed an AWS EC2 instance to implement system-level operations and host Docker containers.
- HTTP requests handled by web server, Nginx, or Python Microframework, Flask, depending on the request type.
- Used RabbitMQ to orchestrate a Message-Oriented Middleware architecture.
- Implemented CI/CD using CircleCI as well as a proper issue-based GitHub workflow.

IoT Vehicle Autonomy Project

- Collaboratively developed an infrastructure-to-vehicle IoT system that incorporates autonomy into older vehicles.
- Drafted an 80-page business plan complete with financial, technical, environmental, and ethical details.
- Presented the project to the North Carolina Department of Transportation and received $5,000 in funding from the NSF.

Leadership Experience

Electrical and Computer Engineering Department – *Student Ambassador* — 03/3/2016 - Current

- Helped revive the program by clarifying purpose, responsibilities, and representing the department as a student.
- Informed prospective students about career paths, concentrations, and opportunities within the ECE department.

Honors & Awards

- Dean's List — 1/24/2016
- Chancellor's List — 5/15/2016-5/15/2018
- Benjamin O'Hood Service Award — 5/15/2018

Additional Information

Computer Skills: VB.Net
Computer Skills: SQL Server
Computer Skills: Linux
Computer Skills: Python
Computer Skills: C++
Computer Skills: Kubernetes