Robby Horvath

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Education

University of Pittsburgh   Aug. 2020 – Exp. Apr. 2023
B.S. in Computer Science   GPA: 3.86/4.0

Experience

IBM Cloud   May 2022 – Dec. 2022
Software Engineer Intern   Durham, NC (Remote)

- Worked in an agile DevOps environment to develop and configure systems, tools, and services for internal use and IBM Cloud customers.
- Launched quality code with tests into production for a requested feature in just the first 3 weeks of starting; all done in Golang while learning the language from scratch.
- Researched and tested IBM tools for Open Source Software license scanning and bringing attention to issues and errors to developers on my team.
- Improved configuration for New Relic performance monitoring tool for all of my team's Node-based microservices: making it possible to find, and optimize, under-performing API endpoint calls.
- Automated a tedious, manual task of configuring and deploying LogDNA setups for different microservices and all dozen cloud regions using Terraform; saving teams valuable time and from the chance of human-error during deployment.
- Remediated vulnerabilities in several microservices by upgrading a Node package that had breaking changes.
- Implemented Apache Kafka (IBM Event Streams) into a Node-based message store to give the ability to create a UI dashboard for clients to view their test results from their build: unit tests, static scans, vulnerability scans, etc..

Projects

New Music Discord Bot   *https://git.io/JLR4G*
- Discord bot that checks for new music from added artists daily at midnight and noon.
- Created using Discord API, Discord.js, Firebase database, and Spotify API; hosted on Heroku.

TCP Implementation   *Available upon request*
- Implemented a subset of the Transmission Control Protocol (TCP) in C.
- Includes concurrent packet timeouts to recover from packet loss.
- Successfully communicates with any TCP implementation.

Culture Vultures   *https://git.io/JUmpJ*
- Android Instagram clone targeted for a niche online subculture.
- Implemented features including: user sign-in, photo upload, and user search querying.
- Front-end built in Java and XM;, backend in Java; data hosted on Firebase.

Skills

Languages: C, JavaScript, Java, Python, Go, Matlab, Shell (fish, Zsh, bash).
Technologies and Tools: GNU/Linux, Node.js, Terraform, NeoVim, Git/GitHub, RegEx, Docker.