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

Relevant Coursework: Data Structures, Algorithms, Compilers, Computer Networks, Operating Systems, Computer Vision, Computational Linguistics, Calculus 3, Linear Algebra

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 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 occurring.
- Remediated vulnerabilities in several microservices by upgrading a Node package that had breaking changes.

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 other 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 XML, backend in Java, and data hosted on Firebase.

Skills

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