Robby Horvath

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Education

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

Relevant Coursework:
- Data Structures, Algorithms, Computer Networks, Operating Systems, Applied Crypto and Network Sec, Systems Software, Computer Vision, Computational Linguistics, Formal Methods in CS, Computer Organization, Calculus 3, Linear Algebra, Physics 1 & 2

Experience

IBM Cloud   May 2022 – Aug. 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 clients.
- Launched quality code with related tests into production for a feature I implemented within the first 3 weeks of starting; all in Golang, which I learned on the fly.
- Worked on Open Source Software license scanning and improved configuration for New Relic performance monitoring tool for all of my team's Node-based microservices API calls.
- Automated a tedious, manual task of configuring and deploying LogDNA setups for different microservices and all of their respective regions using Terraform; saving teams valuable time and from the chance of human-error.

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