

# Robby Horvath

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## Education

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**University of Pittsburgh**

B.S. in Computer Science

Aug. 2020 – Exp. Apr. 2023

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

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**IBM Cloud**

Software Engineer Intern

May 2022 – Aug. 2022

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 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.

## Projects

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**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

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**Languages:** C/C++, Go, Python, Java, JavaScript, Matlab, Shell (fish, Zsh, bash).

**Technologies and Tools:** GNU/Linux, Docker, Terraform, NeoVim, Git/GitHub, RegEx.