

# ROBBY HORVATH

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## EXPERIENCE

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### Software Engineer - IBM Software - MultiCloud Platforms

January 2024 – Present

Raleigh-Durham, NC

- Significantly contributing to the expansion of the MultiCloud platform to include Azure, automating the infrastructure using a GitOps workflow with Terraform/Tofu, Atlantis, Go, and ArgoCD.
- Leading the research and development of a RAG (Retrieval Augmented Generative) LLM chatbot to enhance customer onboarding and documentation Q&A.

### Software Engineer - IBM Cloud Continuous Delivery (CD)

June 2023 – January 2024

Raleigh-Durham, NC

- Led critical feature development for Node.js service, ensuring on-time production roll-out.
- Established comprehensive test coverage using Jest, integrating it into the CI (Continuous Integration) pipeline to maintain service reliability.
- Significantly refactored the codebase, greatly improving maintainability, performance, and the overall debugging experience.
- Provided support to end-users to troubleshoot and resolve issues related to our services.

### Software Engineer Intern - IBM Cloud (Continuous Delivery (CD))

May 2022 – Dec 2022

Raleigh-Durham, NC (Remote)

- Delivered a new feature to production with proper tests within the initial 3 weeks in Go despite being completely new to the language.
- Improved observability by optimizing performance monitoring for all Node microservices and automated the deployment of observability setups across multiple cloud regions.

## EDUCATION

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### B.S. Computer Science

Aug 2020 – Apr 2023

University of Pittsburgh - GPA: 3.86/4.00

## PROJECTS

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### mjc (MiniJava Compiler)

*Code available upon request*

- Developed MiniJava (subset of Java) compiler that with MIPS assembly as the target language.
- Created using Java, JFlex (lexical analysis), and JavaCUP (parsing).

### Deep Answers

[github.com/h0rv/deep-answers](https://github.com/h0rv/deep-answers)

- Created an LLM-based chatbot with RAG to analyze and “chat” with a podcast from its transcriptions.

### TCP Implementation

*Code available upon request*

- Developed a subset of the Transmission Control Protocol (TCP) in C, featuring concurrent packet timeouts for packet loss recovery.

## SKILLS

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- **Languages:** JavaScript (Node.js), Go, Python, Terraform/Tofu, C, Java, Rust, Haskell, Shell (Bash, Fish)
- **Technologies:** GNU/Linux, Redis, Podman/Docker, Kubernetes, Git, NeoVim