

# ROBBY HORVATH

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## EXPERIENCE

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### Software Engineer - IBM Software - MultiCloud SaaS Platforms

January 2024 – Present

Durham, NC

- Propelled the expansion of the MultiCloud platform to include Azure while implementing to a major architecture change: a GitOps workflow using Terraform/Tofu, Atlantis, Go, and ArgoCD.
- Led the Terraform module API design and implementation (standard across all supported clouds) that we exposed to users.
- Contributed to Kubernetes operators for managing cluster and infrastructure deployments.
- Spearheaded the architecture and development of a RAG (Retrieval Augmented Generative) LLM chatbot to enhance customer onboarding and documentation Q&A. Implemented data processing pipelines from internal sources to power search for the model.

### Software Engineer - IBM Cloud Continuous Delivery

June 2023 – January 2024

Durham, NC

- Led major refactoring and implemented critical feature in Node.js services, enhancing performance and reliability; developed CLI tools for production debugging, optimized CI/CD pipelines, and provided technical support to end-users, improving overall system efficiency, reliability, and user satisfaction.

### Software Engineer Intern - IBM Cloud Continuous Delivery

May 2022 – Dec 2022

Durham, NC (Remote)

- Delivered multiple production-ready features across various projects, including IBM Cloud Code Risk Analyzer CLI, LogDNA automation, and observability, demonstrating rapid learning and adaptability in Go, Node.js, Terraform, and general DevOps practices.

## 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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### Creator & Maintainer - instructor-go

[github.com/instructor-ai/instructor-go](https://github.com/instructor-ai/instructor-go)

- Designed, developed, and maintain a Go library that provides a simple interface for extracting structured outputs from LLMs. Enhanced functionality and performance to drive adoption. Supports multiple popular LLM API providers and streaming outputs.

### Co-creator & Maintainer - watsonx-go

[github.com/ibm/watsonx-go](https://github.com/ibm/watsonx-go)

- Developed and maintain the Go client for IBM Watsonx.ai, providing a intuitive interface that allows integration of watsonx in Go applications.

### mjc (MiniJava Compiler)

*Code available upon request*

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

### 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:** Go, Python, JavaScript, Terraform/Tofu, C, Java, Rust, Haskell, Shell (Bash, Fish)
- **Technologies:** GNU/Linux, Git, CI/CD (Tekton, Travis, GitHub Actions), Cloud (IBM Cloud, Azure, AWS), Databases (NoSQL, vector, basic SQL), Containers (Podman, Docker), Kubernetes (OpenShift)