

ROBBY HORVATH

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EXPERIENCE

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.
- 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

B.S. Computer Science

Aug 2020 – Apr 2023

University of Pittsburgh - GPA: 3.86/4.00

PROJECTS

Creator & Maintainer - `instructor-go`

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

- 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

- **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 (Redis, LanceDB, Postgres), Podman/Docker, Kubernetes (OpenShift)