VISHAAL SELVARAJ

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Skills

- Kubernetes - Operators, Webhooks, Custom Schedulers, Native resources.
- Azure - Proficient in numerous Azure resources, internal E2E understanding of how things work.
- Languages - Rust, Java, C#, Python, C++, Go, etc.
- Frameworks - Actix, Rocket, SeaORM, Tensorflow, Langchain, GoFiber, etc.
- Big Data – Ranger, Kafka, Trino, Flink, Hadoop
- Domains - Distributed systems, Full stack development.
- Other - Docker, Git, Azure DevOps, Bash, Pwsh, Bicep, Compression.

Education

B. Tech Computer Science and Engineering / Graduated @ July 2022

Graduated with a 9.03 GPA from Vellore Institute of Technology.

Key Personal Projects

Mitsuha

A distributed WASI runtime where you can run and invoke WASI jobs using uniform data-models and interfaces. Built using wasmtime + grpc in Rust.

Hybridzip

A cross-platform model-aware data compression framework written in C++ and Rust.

Link – https://github.com/hybridzip/hybridzip

Experience

Microsoft

Software Engineer - I / L59 + L60 / July 2022 - Current

- Designed and implemented numerous core platform components for "Azure HDInsight on AKS" – a next-generation big-data PaaS that runs on top of AKS.
  Learn more at https://azure.microsoft.com/en-us/products/hdinsight-on-aks.
- Implemented a Kubernetes operator for Apache Ranger along with Azure SSO support.
- Designed and implemented support for in place upgrades in Azure HDInsight on AKS (a unique and competitive feature for any bigdata PaaS in the market) which allows customers to streamline the latest open-source features and fixes to their bigdata clusters with minimal workload disruption.

  Learn more at https://learn.microsoft.com/en-us/azure/hdinsight-aks/in-place-upgrade.

Software Engineer Intern / Jan 2022 - July 2022

- Designed and implemented an alternative low cost serverless scaling infrastructure in dotnet for Azure HDInsight. This saved my team around $30,000 USD per region per month in infrastructure and maintenance costs. This project also saved us from an outage caused by the legacy scaling infrastructure in Azure HDInsight.

SmokeTrees

Full-stack development intern / May 2020 - July 2020

- Built a digital marketplace using Flutter, FastAPI and PostgreSQL for BearLyfe, a Hong Kong based organization that helps users improve their wellbeing.
- Built a salon booking app using Flutter, FastAPI, Firestore and Razorpay for fabsalons, an India based startup that allows users to book salon facilities from their home.