

Mohammed Suhail Rafeeq V

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PROFESSIONAL EXPERIENCE

Software Developer

Sep 2020 – Dec 2023

SOTI 

Kochi, India

- Worked on design-to-completion of epics ranging from .Net API migration to MobiControl Linux Agent C++ feature development.
- Actively participated in design, code, and compliance reviews.
- As part of the **core Performance Dev Team**, worked on analysis and improvement of performance-critical components.
- Worked on critical performance improvements to support **1 million devices** on the SOTI MobiControl platform.
- Implemented and re-designed caching layer for read-heavy services, resulting in **3-4x faster tail latency**.
- Led .Net CLR/C++ training and mentoring sessions for new hires.
- Recognized amongst the **top 10% of employees at SOTI** as part of the SOTI PEAK (MVP) 2022 program.

Software Developer Intern

Jun 2019 – Jul 2019

Zinfo Codelabs

Kozhikode, India

- Worked on developing an automated Django backend code generator targeting form UI.

SKILLS

Software Development

Data Structures and Algorithms, Object Oriented Design, Database Systems and Internals, Operating Systems, Distributed Systems, Software testing and debugging, Secure code review, Reverse Engineering.

Programming/Scripting Languages

Rust, C/C++, Go, C#, Python, Shell Scripting, Typescript, SQL.

Tools/ Technologies

Git, Containers, Kubernetes, Cloud Services, Perf/Debug Tools, TLA+, Valgrind, .NET, Angular, WebAssembly, eBPF, Linux Kernel.

PROJECTS

NaadanDB

2024

An experimental hybrid relational database

- A relational database written in Rust, targeting OLAP and OLTP workloads.
- This project aims to **experiment with different database development techniques** to support high performance hybrid workloads.

DesignSphere

2023

Design and deploy multi-cloud infrastructure.

- A **drag-and-drop UI** to design and deploy multi cloud architecture with ease.
- Uses **Pulumi Go SDK** to interact with cloud providers.
- Currently supports GCP and AWS cloud providers.

CloudBnB

2020

A distributed managed cloud platform.

- Provides managed cloud services like **Cloud Storage**, **Function as a service** (FaaS) and **Serverless** apps.

Rusty-Fuzzer

2019

A coverage guided evolutionary Fuzzer written in Rust.

- It uses the **Sanitizer Coverage** feature from LLVM compiler infrastructure for Instrumenting the application binary for fuzzing on Linux platform.

EDUCATION

Bachelor of Technology, Computer Science and Engineering

2016 – 2020

School of Engineering, CUSAT. (GPA- 8.4)

Kochi, India