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 different 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**.
- Provided .Net CLR/C++ training and mentoring sessions for new hires.
- Was recognised among the **top 10% of employees at SOTI** as part of the SOTI PEAK (MVP) 2022 program.

Software Developer Intern   Jun 2019 – Jul 2019
Zinfog 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, Distributed Systems, Software testing and debugging, Secure code review, Reverse Engineering.

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

Tools/ Technologies
Git, GDB, Docker, Cloud Services, .NET, Angular, Valgrind, WebAssembly, Linux, Windows, Vim, Tmux.

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