SAI PRASHANTH SELVAGANAPATHY

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EDUCATION:

Master of Science – Computer Science and Engineering   GPA: 3.74/4.0
University at Buffalo, The State University of New York at Buffalo, United States   Aug 2021 - Feb 2023
<u>Relevant Coursework</u>: Data Model Query Language, Operating Systems, Algorithm Analysis and Design, Distributed Systems

Bachelor of Engineering – Computer Science and Engineering   GPA: 7.96/10.0
Anna University, India   Aug 2013 - May 2017
<u>Relevant Coursework</u>: Object Oriented Design, Distributed Systems, Cryptography & network security, Software engineering.

TECHNICAL SKILLS:

- **Programming Languages**: Go, Java, Python, C, C++, C#, Solidity.
- **Web Technology**: Java Script, Node, React, Angular, AWS, XML, HTML, YAML, CSS, REST.
- **Databases**: MySQL, PostgreSQL, MongoDB.
- **IDE**: Visual Studio, Android Studio, Eclipse, NetBeans.
- **DevOps/Tools**: Docker, Kafka, Springboot, gRPC, Kubernetes, Git, Jira, Tomcat, Remix, JMeter.
- **Operating System**: Windows, Linux, Mac.
- **AWS:** EC2, Lambda, API Gateway, AWS IAM, CloudFront.

WORK EXPERIENCE:

System Software Development Engineer Intern, Intel Corporation, Folsom, CA   Jun 2022 – Dec 2022
- Worked on unified testing framework used in Optane group for system validation of NVMe SSDs.
- Collaborated on concurrency framework for testing next generation of Intel Foundry Service product.
- Migrated nightly regression run from Quickbuild to **Github workflows** CI/CD.
- Automated user **API doc** generation using Sphinx.

Member Technical Staff, Zoho Corporation, Chennai, India   Jun 2017 – Jul 2021
- Design and Developed a new data and query centric based language using Golang.
- Developed Zoho Connect and Q&A application with server-side code based on the new language.
- Created **microservice** using Golang for Zoho Search and report Integration and content indexing.
- Migrated static files of the service to **CDN** for 45% faster page load time and reduced server load.
- **Optimized** performance of various queries and data models by 25-40% by increasing concurrency.
- Simplified development cycle for faster build release by integrating with Zoho reports.
- Integrated Zoho security layer, **DOS prevention** with the new language via a **reverse proxy** module.
- Built **APIs** for inter-server communication with other Zoho services.
- Managed **monthly scrum meetings** for milestone releases and mentored new interns.

Project Intern, Zoho Corporation, Chennai, India   Dec 2016 – Mar 2017
- **Automated** test cases and test apps, **coverage** report and benchmark using go test.
- Devised test suites modules for faster build testing and deployment.
- Benchmarked performance for new milestone release using JMeter.

ACADEMIC PROJECTS:

Distributed System: Golang   Jan 2022 – May 2022
Designed a hotel reservation system using Golang as server and docker container for fast deployment of additional servers with Raft based consensus algorithm for leader election using heartbeat and log index.

Student Engagement Platform: Spring Boot, Java, pgSQL, React   Jan 2022 – May 2022
Designed and developed a student platform for k-12 Classes. Students and faculty can search, join, or request a school to participate. Each member can ask questions on topics related to his classes on the platform

Operating System – Pintos   Aug 2021- Dec 2021
Designed and implemented multiple level feedback queue, thread scheduling, priority preemption, priority donation and non-blocking thread sleep. Implemented safe memory access and various systems calls and application stack.

Stack Exchange Database   Aug 2021- Dec 2021
Implemented database model of stack exchange with over hundred thousand data retrieved by using a query tool and inserting into a local Postgres database server using Go language.