

# SAI PRASHANTH SELVAGANAPATHY

Irving, TX, 75039

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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

Relevant Coursework: 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

Relevant Coursework: Object Oriented Design, Distributed Systems, Cryptography & network security, Software engineering.

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## 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.
  - **DevOps/Tools**: Docker, Kafka, Springboot, gRPC, Kubernetes, Git, Jira, Tomcat, Remix, JMeter, Linux.
  - **AWS**: EC2, Lambda, API Gateway, AWS IAM, CloudFront.
  - **Expertise**:
    - Experienced Software Developer with **4 years** of experience in Java, Golang, Python and React.
    - In-depth knowledge on distributed system, Microservices, Kafka and API development.
    - Detail understanding of **AWS** for cloud services with AWS developer certificate.
    - Brief experience in frontend development using React, JS, HTML and CSS.
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## WORK EXPERIENCE:

### Software Engineer, Citi, Irving, TX

May 2023 – Current

- Created microservice for enterprise risk management at Citi Group.
- Developed APIs for Risk Identification for internal teams and tools.

### 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

- Designed and developed an internal Employee Q&A portal and prioritized feature.
- 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.
- 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.

### Project Intern, Zoho Corporation, Chennai, India

Dec 2016 – Mar 2017

- **Automated** test cases and test apps, **coverage** report and benchmark using go test.
  - Benchmarked performance for new milestone release using JMeter.
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## 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.

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