OM SITAPARA

SOFTWARE ENGINEER II

DETAILS

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Socials:

in LinkedIn

GitHub

SKILLS

- C++, GOLANG, PYTHON
- OOPS
- MICROSERVICES
- REDIS
- SYSTEM DESGIN
- DISTRIBUTED SYSTEMS
- ❖ BLOCK-CHAIN
- COMPUTER NETWORKING

ACCOMPLISHMENTS

- Secured AIR 775 in IIT-JEE Advanced
- Runner up Megathon 2k18 Secured 2nd position in the EA games challenge in one of the largest hackathon in south India organized by IITH and IIITH. Made a 2-D multiplayer platform game using OpenGL, SDL, Winsock libraries and our own game engine.

PROFILE

Forward-thinking Software Engineer with background working productively in dynamic environments. Fluent in C++, go and python programming languages. Proud team player focused on achieving project objectives with speed and accuracy.

WORK HISTORY

Software Engineer II – MICROSOFT

Jan 2022 - Current

- Working in the team Platform as a Service (PaaS) team with multithreaded environment using C++ and Golang.
- Currently working with codebase/Components like ISTIO, ETCD, Kafka, Redis, Grafana, Prometheus and many more.
- Developed a **low latency C++ REDIS client library** used by all the applications to talk to the REDIS server in **synchronous or asynchronous** manner.
- Developed custom modules over REDIS SERVER to provide ACID transaction facilities. Also added multiple resiliency features like GeoRedundancy, Life cycle management.
- Design and build a C++ based simulator and Rate limiter for REDIS to test the performance & latency of the client library and server and benchmark it.
- Designed and build a Golang based micro service which exposes a REST API used by application teams to dynamically create CRO for ISTIO
- Handled the complete security of the product on Kubernetes using service mesh like ISTIO, and cilium and using native security mechanisms for databases like REDIS.
- Working with the micro service architecture and have goods hands on Kubernetes and Docker deployments.
- Experience building & scaling concurrent, distributed and fault-tolerant production services

Software Engineer – Arista Networks

Jun 2020 – Jan 2022

- Primarily worked with C/C++ & Python with an eye towards OOPS principles.
- Designed and implemented multiple **low latency** scheduling /shaping algorithms for the traffic management over the switch interface.
- Worked on a Scheduler Compensation feature from scratch and delivered it Bug free to multiple customers like VOCUS, Microsoft etc.

♦ Software Engineering Intern − Arista Networks

May 2019 – Jul 2019

 Developed an automated Python debugging tool for the codebase to identify any potential issue using monitoring, logging and statemachines.

Co-Curricular

- Worked as a TA for: POPL (priciple of programming languages),OS (operating systems), Computer Networks, Distributed Systems, Parallel and Concurrent programming.
- NSO football player for IITH
- Financial volunteer and coordinator for ELAN - NVISION IITH.

OTHER EXPIRENCES

◆ Open Source Developer – MATPLOTLIB

Aug 2019 - Feb 2020

 Participated in fixing the issues, completing feature requests and reviewing other developer's PR's.

▶ Blockchain Researcher – IIT HYDERABAD

Aug 2019- Apr 2020

 Worked on increasing the efficiency and throughput of blockchains by adding concurrency to mining and validation phase using STMs (Software Transactional Memory Systems)

Software Engineering – IIT HYDERABAD

May 2019 – Jul 2019

- Developed a platform SMFHCP Social Media for Healthcare Professionals.
- This platform allows healthcare professionals to share general posts, case-study allows one-to-one chat and comment on post feature.

♦ Web/Android App Developer – Placement Cell IITH

Sep 2017 – May 2018

 Developed official website for placement cell IITH. This website was publicly hosted and used in real time by students, hiring companies and faculties for over 2 years.

EDUCATION

♦ B.TECH: COMPUTER SCIENCE AND ENGINEERING

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD (IITH) – AIR 775 CGPA: 8.6/10

♦ GUJARAT BOARD – 12TH

UTOPIA SCHOOL - AHMEDABAD PERCENTAGE: 91.08%

♦ GUJARAT BOARD – 10TH

BVB'S NARMADA VIDHYALAYA – BHARUCH

PERCENTAGE: 91.83%