

Sujith Rengan Jayaseelan

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WORK EXPERIENCE

Nvidia

Santa Clara, CA

Software Engineer Intern

May 2022 - Aug. 2022

- **GeForce Now:** Cloud Gaming Service - Designed and developed a decoupled low-latency input pipeline for Cloud controllers (C++, Redis, Typescript)
- Developed an Android application to capture and relay inputs at sub 5ms latency (Java, NDK, RxAndroid)
- Defined and integrated QoS markers into existing Telemetry services (Django, Celery, Elasticsearch)

Texas A&M Engineering Experiment Station

College Station, TX

Software Developer

Sep. 2021 - Present

- Leading development of a Cross-platform tool for simulating for Thermodynamic models (Qt/QML, PostgreSQL)

Samsung R&D

Bangalore, India

Software Engineer II

Jun. 2019 - Jul. 2021

- **Development:** Designed and developed a highly available proxy service with chromium cronet engine, improving real-time application traffic and web-page loading times by over 140% (C++, Redis, Docker)
- Developed infrastructure and services for Samsung Bixby Service - Architected a redundant gRPC scheduler to gain 80% improvement in latency, and deployed across Europe and Asia with >15 million users (Java, gRPC, protobuf)
- Developed robust REST APIs, automation tools, command-line utilities (Django, AWS boto3, C++)
- **Collaboration:** Collaborated with Cisco on a scalable implementation of Hybrid Information Centric Networking (hICN) stack for service-mesh and other cloud-native applications (C++, Docker, Jenkins, Terraform)

Software Engineer I

Jul. 2017 - May. 2019

- Implemented an Application Traffic Priority Engine based on real-time network traffic trends and Deep Packet inspection (C++, Linux eBPF filters, and Cilium)
- **Mentorship:** Mentored a Software Engineer Intern for implementing Asynchronous DNS queries and connection attempts - reducing session establishment delays by 40% for dual-stack hosts (Java)
- Developed and managed a Log Analysis Dashboard to parse Android adb logs and automate reports using Java, React, Flask reducing over 40 hours of manual debugging/week and effort duplication by 30%

TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript, HTML/CSS, Go, SQL, Bash

Frameworks: React.js, Redis, Android, Django, RabbitMQ, RxJava, Flask, Qt, eBPF

Tools: Docker, AWS, Firebase, CI/CD (Jenkins, QuickBuild), Git, Linux, Gradle, Android Studio

EDUCATION

Texas A&M University, College Station, TX

Aug. 2021 – May 2023

Master of Science in Computer Science; GPA: 4.0

- **Courses:** Networks and Distributed Processing, Operating Systems, Software Engineering, Parallel Computing

National Institute of Technology, Trichy, India

Jul. 2013 – May 2017

Bachelor of Technology in Computer Science and Engineering; CGPA: 8.77/10

- **Courses:** Advanced Database Systems, Cloud Computing, Network Security

RESEARCH

QSOCKS: 0-RTT Design of SOCKS Protocol for QUIC

IEEE Access (Volume: 8) - July 2020

LEADERSHIP

Web operations Head - Nittfest: Led a team of 8 for development of University's Annual event's website and Android application

Group head - Seva: Led the CSR wing at Samsung in organizing and collaborating with the Karnataka government to donate notebooks and pens to students in government schools across Bangalore