

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 input pipeline for Cloud controllers with C++, Java, Redis and Celery
- Developed an Android Companion application (with NDK support) to relay input commands
- Defined and implemented QoS markers using ETL Trace, Django, Elasticsearch

Texas A&M Engineering Experiment Station

College Station, TX

Software Developer

Sep. 2021 - Present

- Full-stack app for simulating Thermodynamic models, using React, Qt/C++, Apache Struts

Samsung R&D

Bangalore, India

Software Engineer II

Jun. 2019 - Jul. 2021

- **Development:** Designed and developed a robust reverse-proxy server with chromium cronet engine, Improving real-time application traffic and **web-page loading times by over 140%**
- Architected a redundant gRPC scheduler for Samsung Bixby Service and achieved 84% improvement in performance, and deployed across Europe and Asia with >15 million users
- Developed robust REST APIs for Network QoS Metrics collection with Java/Spring Boot
- **Collaboration:** Collaborated with Cisco on a scalable implementation of Hybrid Information Centric Networking (hICN) stack for web
- **Mentorship:** Mentored a Software Engineer Intern for development of a Smart Network Switch PoC, a cross-layer handover framework based on Long Short Term Memory (LSTM) deep neural net ensembles

Software Engineer I

Jul. 2017 - May. 2019

- **Full-stack:** Developed and managed a Log Analysis Dashboard to automate reports for Data Connectivity framework with React, Flask and PostgreSQL, reducing over 20 hours of manual work
- Application Priority Engine based on real-time network traffic trends and Deep Packet inspection using eBPF, C++ and Java
- **Innovation:** Co-inventor of Patent – 'Method and System for handling data path creation in wireless network systems' [ref: US20190320479A1]

TECHNICAL SKILLS

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

Frameworks: React.js, Redis, Android, Django, Spring, RabbitMQ, Tailwind, Flask, Qt

Tools: Docker, AWS, Jenkins, Git, Firebase, Gradle, Android Studio

EDUCATION

Texas A&M University, College Station, TX

Master of Science in Computer Science; GPA: 4.0

August 2021 – May 2023

- **Courses:** Networks and Distributed Processing, Operating Systems, Software Engineering, Deep Learning

National Institute of Technology, Trichy, India

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

July 2013 – May 2017

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

RESEARCH

QSOCKS: 0-RTT Proxification Design of SOCKS Protocol for QUIC

IEEE Access (Volume: 8) - July 2020

ACTIVITIES

Volunteer at SEVA: Part of the CSR wing at Samsung and collaborated with the Karnataka government to donate notebooks and pens to students in government schools across Bangalore

Web operations Head - Nittfest: Led development of University event's website and android application