Sujith Rengan Jayaseelan

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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, Deep Learning, Analysis of Algorithms, Software Engineering, Machine Learning, Data Analytics in Cybersecurity

National Institute of Technology, Trichy, India

Bachelor of Technology in Computer Science and Engineering; CGPA: 8.77/10   *July 2013 – May 2017*

- **Courses**: Operating Systems, Computer Networks, Cloud Computing, Advanced Database Systems

WORK EXPERIENCE

Texas A&M Engineering Experiment Station   College Station, TX

Software Developer - Student Technician   Sep. 2021 - Present

- Building a **Cross-platform** app for simulating Thermodynamic models, under Dr. Jeffrey W. Bullard using ElectronJS and Qt/C++

Samsung R&D India   Bangalore, India

Lead Engineer   Mar. 2021 - Jul. 2021

- **Development:** Designed and developed a robust proxy server model with chromium cronet engine, Improving real-time application traffic and **web-page loading times by over 140%** - enabling faster connection migration
- **Research to Market:** Implemented a redundant gRPC scheduler for Samsung Bixby Service and achieved 84% improvement in performance, and deployed across Europe and Asia with >15 million users
- **Backend:** Led API development for rebuilding Smart Network Switch data collection pipeline supporting Cloudflare Workers KV datastore

Software Engineer II   Apr. 2019 - Feb. 2021

- **Collaboration:** Collaborated with Cisco on a scalable implementation of Hybrid Information Centric Networking (hICN) stack for Samsung smartphones
- **Fullstack:** Developed and managed an Log Analysis Dashboard to automate reports for Data Connectivity framework with React, Express and PostgreSQL
- **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 nets

Software Engineer I   Jul. 2017 - Mar. 2019

- **Application Priority Engine** based on real-time network traffic trends and Deep Packet inspection
- **Innovation:** Co-inventor of Patent – 'Method and System for handling data path creation in wireless network systems' [ref: US20190320479A1]

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, Java, HTML/CSS, QML, Go
Frameworks: React, PostgreSQL, GraphQL, Redis, influxDB, Kafka, Qt, PyTorch, Flask
Developer Tools: Git, Docker, AWS, Firebase, CircleCI, Postman
Other skills: Linux kernel, eBPF, Android SDK, TCP-UDP protocol stack

RESEARCH

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

IEEE Access (Volume: 8) - July 2020

ACTIVITIES AND HONORS

Winner – Samsung India Code Red Hackathon '20: Organization-wide Cybersecurity hackathon and bug bounty
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 '17: Led development of University event's website and android application