

Shriram Raja

M.ENG. GRADUATE · COMPUTER ENGINEERING

Virginia Tech, Blacksburg, VA 24060

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Education

Boston University, Boston, MA

INCOMING PH.D. IN COMPUTER SCIENCE

Sep 2023 - present

Virginia Polytechnic Institute and State University, Blacksburg, VA

MASTER OF ENGINEERING, COMPUTER ENGINEERING

Aug 2021 - May 2023

3.96/4.00

- Advisor: Dr. Haibo Zeng
- Project Title: Hybrid Priority Assignment for Global Fixed Priority Scheduling
- Relevant Coursework: Advanced Real-Time Systems, Advanced Linux Kernel Programming, Multiprocessor Programming, Compiler Optimizations

PSG College of Technology, Coimbatore, India

BACHELOR OF ENGINEERING, ELECTRICAL & ELECTRONICS ENGINEERING

Aug 2017 - May 2021

9.76/10.00

- Relevant Coursework: Embedded Systems & IoT, Operating Systems, Internetworking & Applications, Digital System Design

Skills & Technologies

Programming Languages: C, C++, Python, and Verilog

Microcontrollers and Boards: Arduino, 8085, 89C52, MSP430, and Raspberry Pi

Tools: MATLAB, Linux Shell, Git, Tableau, and LLVM

Competencies: Linux Kernel Programming, Object Oriented Programming, Real-Time Operating Systems (FreeRTOS)

Soft Skills: Problem-solving, Strong Verbal & Written Communication, Leadership, Detail-oriented, and Teamwork

Professional Experience

Virginia Tech

RESEARCH ASSISTANT

Mar 2022 - May 2023

Blacksburg, VA

- Working on the implementation and experimentation of a Priority Assignment algorithm for Global Fixed Priority Scheduling on Multiprocessors using Response Time Estimation Range, advised by Dr. Haibo Zeng
- Contributed to the development of a novel mixed Priority Assignment algorithm that combines the advantages of heuristics and response time estimation to provide better overall performance.

Security Solutions BU, Marvell Semiconductor

FIRMWARE ENGINEER INTERN

May 2022 - Aug 2022

Santa Clara, CA

- Developed skills to understand and work with a large codebase spread across different repositories.
- Developed debugging skills in an embedded environment.
- Implemented the FRAM Logging feature in the latest version of LiquidSecurity Cloud Hardware Security Module to enable communication between the processor and the FRAM during boot-up.

Teaching Experience _____

Spring '22,

Fall '22 & **ECE 5480 Cybersecurity and IoT**, Graduate Teaching Assistant

Virginia Tech

Spring '23

Extra-Curricular Activities & Honors _____

2021 **Best Outgoing Student**, Alumni Association, PSG College of Technology

Academic Proficiency, Department of Electrical and Electronics Engineering, PSG Tech

2018 - 2019 Awarded in four consecutive semesters for being among the top 3 scorers in a class of 60+ students

The Bridge - the **Official Online Magazine** of PSG College of Technology

Served as **Correspondent** and later **Editor**

Penning and editing several articles primarily on books and reading.

Institution of Electronics and Telecommunications Engineers [IETE] Students' Chapter, PSG College of Technology

Served as **Joint Secretary**

Organized several contests at the inter and intra-college level to test the participants' technical skills.