Roshen Abraham

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WORK EXPERIENCE

Northrop Grumman   **July 2022 – Present**
Software Engineer   *Baltimore, Maryland*

- Deployed a system monitor that receives log messages from multiple devices over a UDP socket, enabling real-time performance monitoring across a distributed environment
- Built a Python script that analyzes the system monitor messages and extracts performance/efficiency metrics of VITA49 packets across the devices
- Created a custom Linux-based operating system for an Intel Stratix 10 FPGA board
- Utilized Quartus Programmer to configure firmware to Stratix 10 boards
- Loaded kernel images through tftp server in uboot
- Assisted in device driver development for custom hardware
- Developed both a TCP and UDP Socket Server/Client in C++
- Modified, tested, and integrated open-source software

Terrapin Tech   **August 2018 – May 2022**
IT Support Student Manager   *College Park, Maryland*

- Managed over 40 representatives who interacted with customers to provide software and hardware support
- Improved overall user experience through employee support, training, troubleshooting, improvements, and communication of system changes
- Handled routine issues independently and coordinated solutions to complex operational and student problems

Memley   **March 2020 – January 2021**
Front-End Developer   *College Park, Maryland*

- Implemented user interfaces for a React Native based mobile application and a React based web application
- Incorporated AWS to provide seamless customer data interaction as well as to ensure security
- Application testing for mobile phones and tablets

SENSE Research, Department of Atmospheric and Oceanic Sciences   **August 2018 – December 2019**
Undergraduate Student Researcher   *College Park, Maryland*

- Developed micro-climate sensors that monitored weather conditions, air pollution, and greenhouse emissions (previously used at NASA's Goddard Space Flight Center)

EDUCATION

University of Maryland   **August 2017 – May 2022**
BS in Computer Engineering   *College Park, Maryland*

- Recipient of the Yurie/Jeong H. Kim Scholarship from the A. James Clark School of Engineering
- Elected as a student representative for the Undergraduate Affairs Committee of the Department of Electrical and Computer Engineering

LANGUAGES AND SKILLS

- **Languages:** Python, C++, Java, JavaScript, Typescript, MATLAB, Bash
- **Frameworks:** React, React Native, NextJS
- **Skills:** Critical Thinking, Problem-Solving, Teamwork, Git, Documentation, Time Management, Debugging