

# Roshen Abraham

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(301)741-6460

Laurel, Maryland

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## WORK EXPERIENCE

### Northrop Grumman

July 2022 – Present

*Software Engineer*

*Baltimore, Maryland*

- 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 a TCP/IP Socket Server and Client application in C++
- Modified 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)
- Built a smart network of low-cost moderate-precision sensors on campus and across the greater DC/Maryland area

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## 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

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## LANGUAGES AND SKILLS

- **Languages:** Python, C++, Java, JavaScript, MATLAB, Bash
- **Skills:** Critical Thinking, Problem-Solving, Teamwork, Git, Documentation, Time Management, Communication

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## SECURITY CLEARANCE

Active Secret Level Security Clearance (2022 – present)