

Roshen Abraham

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(301)741-6460

Richmond, VA

Security Clearance: Secret

WORK EXPERIENCE

Capital One

March 2024 – Present

Senior Associate Software Engineer

McLean, Virginia

- Designed and developed an internal application using Python, Flask, Angular, and AWS services to allow users to create, modify, and publish custom data tables for transformation mappings
- Implemented REST APIs and established a high-performance testing environment in our CI/CD pipeline to ensure application stability under heavy data loads

Northrop Grumman

July 2022 – March 2024

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
- Developed both a TCP and UDP Socket Server/Client in C++

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

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, Flask, Angular
- **Skills:** Git, AWS, Testing, Documentation, Jira, Agile Development,