Abdulahad Ghuman

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PROFESSIONAL EXPERIENCE

Software Engineer at **Newport News Shipbuilding**, Newport News, VA | April 2024 – Present

- Revamped sidebar navigation for the Compartment Completion project, improving usability by 50% and enabling engineers to access data 30% faster with advanced filtering options.
- Implemented data visualization features, creating charts with persistent data retention via Angular services and JSON integration, reducing manual data retrieval efforts by 40%.
- Added a comprehensive analysis page with 5 advanced filtering capabilities, streamlining access to compartment data for shipbuilding insights for over 100 shipbuilders.
- Developed and validated key existence classes for the Common Simulation Framework (CSF), enhancing system reliability and safeguarding critical simulation components by 20%.
- Authored and maintained over 50 unit tests using Jest and JUnit, increasing code coverage by 25%.

Technologies: Angular, TypeScript, HTML, CSS, Java, Jest, JUnit, Gradle

PROJECTS

Shield360 – Comprehensive Antivirus Solution | October 2023 – Present

- Developed an antivirus application using hash-based file comparison to detect over 70,000 different malwares.
- Built a real-time monitoring system to track file modifications, ensuring data integrity and security of 10,000 files.
- Created an encryption module with a user-friendly command-line interface to safeguard data within 1 second.

Technologies: Java, Maven, Git

ChatNow – Encrypted Multi-User Messaging System | December 2022 – May 2023

- Engineered a secure messaging platform with end-to-end encryption, supporting up to 100 concurrent users.
- Integrated robust authentication protocols, achieving 95% uptime and preventing unauthorized access.

Technologies: Java, Java Swing, Git

Capstone Project – Botnet Detection and Prevention System | January 2022 – May 2022

- Devised a botnet detection and prevention system using Python's Captcha library and a supervised learning algorithm to identify malicious traffic with 95% accuracy.
- Automated botnet detection reduced response time to suspicious activities by 60%, enhancing network security.
- Created an administrative dashboard to oversee 1,000+ registered users and enable manual overrides for false positives, improving system flexibility.

Technologies: Python, Flask, Captcha, JavaScript, HTML, CSS, NoSQL

EDUCATION

Master of Science in Cybersecurity
New York Institute of Technology, Old Westbury, NY | September 2022 – May 2023
Relevant Coursework: Secure Software Engineering, Cryptography, Internet Security

Bachelor of Science in Computer Science
New York Institute of Technology, Old Westbury, NY | September 2019 – May 2022
Relevant Coursework: Data Structures, Algorithms, Databases

SKILLS

Programming Languages: Java, Python, Rust, TypeScript, C++, C#, JavaScript, HTML, CSS
Frameworks & Libraries: Angular, Flask, Maven, PyTorch, Scikit-Learn
Tools: Git, Jest, JUnit, Gradle, Amazon Web Services, Azure Devops
Specialized Knowledge: Cryptography, Data Visualization, Secure System Design