Mohammed Niyas

dm me on linkedin to get in contact with me!

Skills

Technical:	Python, Typescript, C,C++,C#, .NET, Java, SQL, NoSQL
Tools:	Git, Postman, Jenkins, VMWare, Docker, CI/CD
Cyber:	Metasploit, nmap, mimikatz, wireshark
Data/Product:	JIRA, Tableau, PowerBI, Figma, Agile, SAFe
Learning:	fast.ai, AWS

Experience

Freddie Mac VA

Software Engineer - Robotics Process Automation 2023 - Present

- Design, develop, and deploy critical and complex automated processes in distributed systems, collectively saving the firm 700,000$+/year with a primary focus in CI/CD pipelines and Identity Security
- Support the full Agile software development lifecycle of process automations including architecture, integration, QA, regression testing, stress testing, production support, and documentation
- Emphasize and adhere to quality results with effective use of coding design patterns, practices, and standards
- Conduct code reviews, write unit tests, and review daily monitoring reports, supporting 157 bots in production
- Implement new requirements and code enhancements using an Agile change control process
- Work closely with business and technology partners for successful delivery of initiatives and solutions
- Complete 90% of RPA enhancements to the Jenkins Modern Delivery Modern Pipeline, successfully reaching OKR Stretch Goal for 2023
- Quickly develop and push changes to production with shifting requirements, communicating timelines and needs efficiently to business areas
- Developed 4 internal tools to enhance the RPA developer experience - improving readability for process automation logs (TextMate) , improving validations for process automation config files (linter), kickstarting new projects with a generator ecosystem (scaffolding), PowerBI benefit dashboard reports
- Python, Java, Groovy, Typescript, Jenkins, VBA, PS1, Cyberark, Apigee, Excel, PowerBI

IBM - Security Innovation & Remediation Team TX

Security Engineering Co-Op - Enterprise & Technology Security Summer 2021, Fall 2022

- Built Neo4j graph database and generated internal single page web application to aid Active Directory Threat Intelligence visualization and remediation
- Designed and implemented treemap visualizations for processed malicious Tor Exit Nodes via flat file and endpoint telemetry
- Neo4j, Express, React, Powershell, Node, mimikatz, D3, MongoDB

Atmospheric Lidar Group, Division of Data & Analytics Baltimore, MD

Software Engineering Intern - UMBC, NASA, EPA, NOAA 2021 - 2022

- Core developer for the Unified Ceilometer Network (ucn-portal.org), implementing data processing framework for ceilometer aerosol backscatter profiles and appropriate quality assurance to produce planetary mixed layer heights every hour
- Implemented features in the Model View Control architecture for standardization, processing, unit tests for microservices architecture handling incoming ceilometer data from 54 sites across the nation
- Coded features for real-time dynamic data display and optics monitoring - Django API rest framework
- Communicated weekly reports and presented at 10th Biennial Education and Science Forum
- AWS EC2, Apache2, Django, Redis, Celery, Docker

Education

University of Maryland, Baltimore County Baltimore, MD

B.S Computer Science 2019 - 2023

Sondheim Public Affairs Scholar, NOAA Center for Earth System Sciences and Remote Sensing Science & Technologies Fellow (CESSRST)

AGU Fall Meeting 2021, https://ui.adsabs.harvard.edu/abs/2021AGUFM.A25O1874D/abstract