Shah Nafis Rafique

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SUMMARY

Professional Software Engineer with 5 years of experience, maintaining a Top Secret level federal clearance. Bachelor's degree from the University of North Carolina at Greensboro.

EXPERIENCE

Software Engineer II
Lockheed Martin   **February 2022 – Present, Fort Worth**

- ADP, P999, CMCC program. Primarily working in C++ with the QT framework for the desktop Omniview HMI portion of CMCC in an Agile environment.
- Spearheaded on multiple IRADs efforts from P51 in support of CMCC helping bring new or previously supported features back to Omniview.
- Taken ownership of the Secure Code Analysis portion of the release process to help expedite the adjudication of cyber findings to meet customer demands. Adjudication process brought down from a couple of weeks down to a few days, adjudicating at times over 800 findings.
- Developed in the effort to modernize the User Interface of Omniview helping bring the product to a more competitive standing in comparison to competitor products.
- Improved tools used by the customer to help with the installation process for deployment to site, aiding the release process.
- Worked on Java product that handles UCI to proto/proto to UCI translations requiring collaboration with other team members to bring necessary features to shared products to ensure cross team, cross product, functionality and breaking silos.

Software Engineer
Peraton   **February 2021 – February 2022, Chantilly, Virginia**

- Transformed, validated, and protected network communications over various protocols, including HTTP, TCP, UDP, SFTP, and JMS across various security domains.
- Improved existing legacy Python scripts, developed security filters in Lua, constructed Java integration tests with Citrus all in an Agile development environment.
- Network orchestration supported by Docker, Kubernetes via Rancher, and Helm all running on Red Hat Linux.
- Lead new development standards by promoting unit tests and large codebase refactors to better meet client demands.

Associate Software Engineer
Northrop Grumman Defense Systems   **August 2020 – February 2021, King George, Virginia**

- Developed Combat System Simulations in C++, CMake, MFC, Boost, and Lua in an Agile development environment.
- Renovated existing GUI to modernize and increase user-friendliness using WxWidgets to support Navy training.
- High-performance desktop application powered by distributed computing to allow processing of over one million combat units.

Fullstack Developer
University of North Carolina at Greensboro Office of Research and Engagement   **August 2019 – August 2020, Greensboro, NC**

- Hurricane image dataset labeling web application implemented in MongoDB, Express.js, React.js, and Node.js using the Next.js framework along with Jest.js for unit testing.
- Setup Continuous Integration and Deployment (CI/CD) leveraging Github Actions to deploy to Linux server on push.
- Improved productivity for labelers using the dashboard and enabled labeling of one terabyte of images across 6 datasets over half a year.
- Measured data quality by constructing Convolutional Neural Network to better understand the necessary sample size to create an accurate model.

Frontend Developer
Supplemental Software   **June 2018 – June 2019, Greensboro, NC**

- Translated designs into a functional dashboard for water pump displays. Utilized ES6 JavaScript, HTML5, CSS3, jQuery and Bootstrap 4.
- Integrated multiple RESTful APIs specified from back-end documentation.
- Realtime dashboard consumed and transformed API responses over AJAX at a rate of over 1000 data points a minute.

EDUCATION

Bachelor of Science in Computer Science with Concentration in Data Science and Big Data
Minor in Mathematics · University of North Carolina at Greensboro · Greensboro, NC · 2020 · 3.6

SKILLS

Languages: C++,JavaScript, TypeScript, Lua , Python, Java, HTML / HTML5, CSS / CSS3, Bash, JSON

Technologies: QT, Node.js, MongoDB, Git, GitHub, Google Cloud Platform, Amazon AWS, Microsoft Azure, CI/CD, Apache Camal

Operating Systems: Windows, Ubuntu, Linux / Unix, Red Hat Enterprise

Libraries / Frameworks: QT, React, React Native, Express.js, Next.js, Jest, Citrus, Microsoft Foundation Class (MFC), WxWidgets, Pandas

Tools: QMake, CMake, VS Code, Visual Studio, HashiCorp Vault