M NAQVI KHAN

469-920-0666 | naqvikhan98@gmail.com | github.com/naqvikhan | linkedin.com/in/naqvik | naqvi.xyz | Dallas, TX

EDUCATION

BSc. Computer Science, The University of Texas at Dallas (GPA: 3.3/4.0) Dec 2021
2x – Competitive Scholarship Recipient

TECHNICAL SKILLS

Programming Languages: Java, C++, C, Python, HTML/CSS, JavaScript, Swift, Objective-C | **Frameworks/Libraries:** Spring Boot, Django, React, jQuery, Bootstrap, Tess4j, NumPy, Selenium | **Developing Tools:** Git, Maven, IntelliJ, PyCharm, VS Code, XCode | **Big Data Technology:** MySQL, NoSQL, MongoDB, Memcached | **Others:** Agile Development, CI/CD, Jira, Confluence, Unix/Linux, Design Principles, Object Oriented Programming

EXPERIENCE

Workflow Engineer, SimpleCitizen Inc. (acq. by Fragomen) May 2022 – Apr 2023

- Developed and maintained internal and user-facing immigration web applications using **HTML**, **CSS**, and **JavaScript**, resulting in the creation of intuitive, efficient, and organized workflows for immigration processes and enhancing the overall user experience.
- Optimized immigration processes by developing over 200 efficient workflows across various high-demand immigration case types utilizing **XML** for collecting and storing user data, and **JSON** for seamless data integration across multiple case management platforms. This resulted in approximately 30% faster case processing times.
- Programmed reusable coding components in **Python**, resulting in about a 40% reduction in code duplication, and utilized **Django** to automate case progress tracking and event triggering, leading to a reduction in system resource utilization by about 20%.
- Designed and developed multiple web-based immigration applications by leading cross-functional teams through effective collaboration using **Agile Methodologies** and **CI/CD Principles**. Ensured delivery of industry-standard applications that adhere to coding standards and have zero security vulnerabilities.

Software Developer, UT Design Capstone (spon. by Capital One) Aug 2021 – Dec 2021

- Engineered a fraud detection Microservice for Capital One's Auto Financing Program built as **RESTful API** using **Spring Boot Framework** implemented in **Java**.
- Collaborated with a team of 6 for scope, development, and testing, engineering a scalable product that automated a time-consuming human task to under 12 seconds, capable of providing end-user instant feedback.
- Implemented **Maven** Build and test-driven development using **JUnit Testing** as the primary form of testing for the project – ensuring the robustness and reliability of the software. Built entirely using open-source tools and **GIT** for version control, incurring $0 in development costs.
- Developed an **Optical Character Recognition (OCR)** system for pre-processing scanned/camera uploaded financial documents and extracting information using **Java** wrapper class **Tess4J** of **Google Tesseract** with an approximate 98% accuracy.
- Created a post-processing parser using **Hash Data Structure** to convert OCR extracted information into **JSON** – and tested against a **Drools Engine** – with almost a 100% accuracy in terms of anomaly detection forecasting a reduction in fraud, human error, and liability issues between customers, car dealerships, and lending firms/banks.

Research Intern, Big Data Analytics Lab (UT Dallas) Jan 2020 – May 2021

- Optimized an application by implementing caching, in-store memory, and containerization techniques using **Memcached** with **Java** reducing query time and latency of handling a large number of simultaneous requests that exceeded the capacity of the API.
- Developed layout, design, and statistical animation using **Swift** on **Xcode** for a data visualization app that tracks real-time COVID data in Bangladesh, utilizing **JSON** data from the Bangladesh Bureau of Statistics, The World Bank, and Bangladesh Open Data.

PROJECTS

Workflow Automation – (**Python** and **Selenium**) (bit.ly/workflowAutomation)

- Developed an automation script that simplifies accessing various work tools, web apps, and VPN for the school's IT office.
- Minimized average log-on time of 5 minutes to approximately 15 seconds.

ML Decision Tree (Hack DFW 21)– (Python, Scikit-Learn, Pandas, HTML, CSS, JavaScript, jQuery)

- Implemented an ML Decision Tree using Python for refined allocation of tech in school loaner programs.
- Fine-tuned Decision Tree algorithm with a self-generated Dataset of 50,000 entries.

LEADERSHIP

President, Bangladeshi Student Organization (University of Texas at Dallas) Aug 2021 – Dec 2021
ITSM Student Supervisor, Office of Information Technology (University of Texas at Dallas) May 2019 – Dec 2021