# M NAQVI KHAN

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## EDUCATION

**BSc. Computer Science, University of Texas at Dallas, Richardson, TX**          August 2017 — December 2021
**Achievement:** Competitive Undergraduate Scholarship - 2x Recipient

## EMPLOYMENT HISTORY / EXPERIENCE

**Workflow Engineer, SimpleCitizen Inc.**          May 2022 — April 2023

- Developed and maintained 50+ immigration workflows in digital case management platforms utilizing data structures, advanced algorithm design, and tech stack, including Python, JavaScript, HTML, XML, CSS, Hy, JSON, Django.
- Successfully executed the design and development of various high-demand projects including web-based immigration applications, such as PERM, L1A, Australia TSS, resulting in 100% accuracy for gathered requirements, delivering results 2 weeks before the 6-week project deadline.
- Implemented reusable code components resulting in a 40% reduction in code duplication, improved code maintainability, and a 20% reduction in system resource utilization.
- Resolved 95% of workflow-related issues through effective collaboration with cross-functional teams, resulting in improved system performance.
- Developed and delivered industry-standard web-based immigration applications with adherence to coding standards and 0 security vulnerabilities.

**Software Developer, UT Design Capstone (Capital One)**          August 2021 — December 2021
A fraud detection Microservice built as RESTful API using Spring Boot Framework implemented in Java.

- Collaborated with Sr. Software Engineers from Capital One and a team of 6 for scope, development, and testing, engineering a scalable product that automated a time-consuming task to under 12 seconds, capable of providing end-user instant feedback. Built entirely using open-source tools, utilizing zero development costs.
- Implemented Maven Build and JUnit Testing as the primary form of testing for the project, ensuring robustness and reliability of the software.
- Developed an Optical Character Recognition (OCR) system for pre-processing documents using Tess4J wrapper of Google Tesseract, forecasting a reduction in fraud, human error, and liability issues within customers, car dealerships, and lending firms/banks.
- Created a post-processing parser using Hash Data Structure to improve the accuracy and efficiency of data processing in the software.

**Research Intern at Big Data Analytics Lab, University of Texas at Dallas**          January 2020 — May 2021

- **Web API Optimization** using Memcached with Java
  Optimized an application that faced increasing query time and latency by implementing caching, in-store memory, and containerization techniques. This was done to find a sustainable solution for handling large number of simultaneous requests that exceeded the capacity of the API.

- **iOS Development** using Swift on Xcode
  Developed layout, design, and statistical animation for a data visualization app that tracks real-time COVID data in Bangladesh, utilizing data from Bangladesh Bureau of Statistics, The World Bank, and Bangladesh Open Data.

## PROJECTS

**Auxilium** - (HackDFW '21) – (**Machine Learning Algorithm** using **Python, Scikit-Learn, Pandas**)

- Implemented an ML Decision Tree using Python, for refined allocation of tech in school loaner programs, to prioritize students with greater needs for remote/online learning over first come first serve.
- Front-End: HTML, CSS, JavaScript, jQuery for information collection and appending to existing dataset.

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

- Developed an automation script that simplifies accessing various work tools, webapps and VPN for school's IT office (such as When2Work, Amazon Connect, Microsoft Remote Desktop, Microsoft Teams etc.) Minimized average log on time of 4-5 minutes to 15 seconds.

**Personal Webpage** – (**Web Development** using **HTML, CSS, JavaScript, Bootstrap** on VS Code.) (bit.ly/naqvi-web)

- Developed a dynamic one-page portfolio. Designed layout and theme utilizing HTML and CSS. Integrated JavaScript to create subtle animations and fluidity within the webpage.

**E-Commerce Platform** – (**C++** on VS Code) (bit.ly/ecomCPlus)

- Programmed the backend of an e-commerce store system, importing inventory from a local database, where customers can: search, purchase and filter items, and clients can: add or remove inventory and update price.