

# M NAQVI KHAN

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SOFTWARE ENGINEER

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Portfolio: [naqvi.xyz](https://naqvi.xyz)

## EDUCATION

**BSc. Computer Science, University of Texas at Dallas, Richardson, TX** August 2017 — December 2021

**Relevant Coursework:** Data Structures, UNIX, Probability & Statistics, Computer Architecture, Discrete Math for Comp II, Database Systems, Software Testing, Advanced Algorithm Design & Analysis, Machine Learning.

## PROJECTS

**1. Machine Learning Algorithm - Auxilium (HackDFW '21)** 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.

**2. Python Development - Automation Tool** using Python and Selenium ([bit.ly/workflowAutomation](https://bit.ly/workflowAutomation))

- An automation tool that simplifies accessing the various applications (such as When2Work, Amazon Connect, Microsoft Remote Desktop, Microsoft Teams etc.) essential for working at school's IT Office. It reduces logging in time from the typical 3-4 minutes to 20 seconds.

**3. Web Development** using HTML, CSS, JavaScript on VS Code. ([bit.ly/naqvi-web](https://bit.ly/naqvi-web))

- Personal Webpage:** Structured a one-page website consisting of my projects, skill, current experience. Using HTML to define the layout of the website, implementing CSS and JavaScript to create the subtle animations and fluidity within the website.

## EMPLOYMENT HISTORY

**Software Developer at UT Design Capstone (Capital One)** ([bit.ly/detectly](https://bit.ly/detectly)) August 2021 — December 2021

A fraud detection Microservice built as RESTful API using Spring Boot Framework implemented in Java.

- Collaborated with Capital One Sr. Software Engineers and a team of 6 for scope, development, and testing.
- Maven Build - implementing JUnit Testing as primary form of testing.
- Developed an OCR for pre-processing documents using Tess4J wrapper of Google Tesseract.
- Created a decision table based on common fraud trends - implemented using Drools - Rules Engine.

Accomplishments/Goals:

- A scalable product, automating a time-consuming task to under 12 seconds - capable of providing end-user instant feedback. Built entirely using open-source tool - utilizing zero development costs.
- To reduce potential fraud, human errors, and liability issues within customers, car dealerships, and lending firms/banks.

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

- Web API Optimization** using Memcached with Java

Optimizing an application that faces latency and increasing query time using caching and in-store memory, as well as containerization and scaling in order to find the optimum solution to handle a large query/number of simultaneous requests beyond the power of the API.

- iOS Development** using Swift on XCode ([apple.co/2EzOrhy](https://apple.co/2EzOrhy))

A data visualization app, for real-time Covid Tracking in Bangladesh using Data from Bangladesh Bureau of Statistics, The World Bank and Bangladesh Open Data. Developed Layout, Design and Statistical Animation.

**ITSM Supervisor at Office of Information Technology, University of Texas at Dallas** May 2019 — December 2021

- Student supervisor role assisting managers with technical campus services.
- Delegating and managing a team of 30+ Analysts; training and mentoring new hires.
- Providing technical support for various campus hardware and software issues.
- Tools: JIRA, Teams, Stream, Cherwell, Cisco WebEx, Amazon Connect, Global Protect.

**President at Bangladeshi Student Organization, University of Texas at Dallas** August 2021 — December 2021

Planning organization goals and agendas; organizing events (ex. scholarship fundraisers, networking events), digital marketing, creating student-alumni network, recruiting members, collaborating with affiliated organization.

**Volunteer Work / Memberships:** SUAAB, ACM UTD, Hack to Help, AI Society, Galerstein Gender Center, Spreeha Dallas.

## SKILLS

Java / C / C++

Python / iOS Development

SQL / NoSQL / MongoDB

HTML / CSS / JavaScript

Git / Agile Development / SCRUM

Racket / Prolog / C