Tousif Khan

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EDUCATION

CUNY City College of New York — Expected: May 2022

Bachelor of Science in Applied Mathematics, Minor in Computer Science — GPA: 3.7/4.0 — New York, NY

Coursework: Linear Algebra, Probability Theory, Differential Equations, Applied Mathematical Computation, Mathematical Statistics I & II, Applied Statistics and Probability, Data Structures, Algorithms, Software Design

TECHNICAL SKILLS

Languages: <u>Proficient</u>: Python, R, SQL | <u>Familiar</u>: JavaScript, C++, Java, Bash
Libraries: *Python*: Pandas, Scikit-Learn, NumPy, TensorFlow, Flask | *R*: tidyverse, Shiny | *JS*: React, Vue, Node
Tools: JupyterLab, RStudio, Linux (Arch, Fedora), Git, Docker, Kubernetes, MongoDB, IBM Cloud, IBM Watson

EXPERIENCE

IBM — Feb. 2021 – Present

Software Developer Intern — *Armonk, NY*

- Modernize the internal software portfolio of IBM Global Financing (IGF) by developing and deploying scalable web applications used worldwide by members of the IBM community.
- Use the Vue.js framework for front-end development on the IGF Sales-Enablement web application.
- Maintain 100+ automation scripts using Java, IBM Selenium, and the TestNG framework to test the functionalities of the IGF Sales-Enablement web application.
- Simplify processes related to outage tracking, SLA metrics, maintenance schedules, dependency information, and communication between development and business units.

Con Edison, Inc. — July 2017 – July 2018

Computer Intern, SPEAR Department — *New York, NY*

- Worked with company Work Management Systems and Excel to manage and migrate department database.
- Collaborated with co-workers on projects regarding safer company equipment for underground inspection.
- Presented research and data to the company board on safer vented manhole covers, in order to prevent underground gas buildup.

PROJECTS

EDA on U.S. Labor and Industry Data | *Python, Pandas, NumPy, Plotly* — TBD

- Analyzed employment industry trends in the U.S. pulling from the Bureau of Labor Statistics database.
- Used Pandas to wrangle data and visualized identifiable trends throughout several decades using Plotly.

Visualization of COVID-19 Vaccine Distribution | *Python, Pandas, Seaborn, Plotly* — TBD

- Using Seaborn and Plotly, visualized COVID-19 global vaccine distribution, collecting data from dataset available on Our World in Data. Tracked statistics on the Pfizer, BioNTech, Moderna, Sputnik V, Oxford, AstraZeneca, and Sinopharm/Beijing vaccines.
- Used Pandas to wrangle data, normalizing values, replacing null values as necessary. Deployed using Plotly and hosted on portfolio site.

COVID-19 Tracker App | *JavaScript, React.js, MaterialUI, Google Firebase* — Dec 2020

- Built and deployed a COVID-19 tracker application using React. Fetched data using axios from an API providing daily statistics on infections, recoveries, deaths, and graphed using ChartJS. Interface was created using the MaterialUI library. Deployed using Google Firebase.

LEADERSHIP & ACTIVITIES

Ahlul-Bayt Student Association at City College — Mar. 2020 – Present

Vice-President — *New York, NY*

Study Circle | ***Historical, Philosophical, Political Texts*** — Jan. 2020 – Present

Organizer and Facilitator — *New York, NY*