

# Affan Khan

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## EDUCATION

### THE UNIVERSITY OF TEXAS AT AUSTIN, Austin, TX

May 2022

**Degrees:** Bachelors of Science and Arts (B.S.A.) in Computer Science and Bachelors of Arts (B.A.) in Asian Studies

**GPA:** 3.1/4.0

**Certificates:** Scientific Computations and Data Science; Applied Statistical Modeling

**Relevant Coursework:** Introduction to Programming, Discrete Mathematics, Data Structures, Computer Organization and Architecture, Operating Systems, Computer Graphics, Inventors Program Cybersecurity, Parallel Computing for Science and Engineering

## SKILLS

**Programming Languages:** Fluent: Java, R, Python; Experienced: C, JavaScript, SQL; Exposure: C++

**Frameworks and Tools:** Fluent: ReactJS, Angular 2, Node.js, Tableau; Experienced: Azure Data Factory, Postman, MySQL, REST API

## EXPERIENCE

### EOG RESOURCES, Houston, TX

Jun 2021 - Aug 2021

*Incoming Data Engineer Intern*

### JUNI LEARNING, Remote

Sep 2020 - Present

*Computer Science Instructor*

- Instructed students of K-12 levels in full courses from basic Python and Java programming up to advanced USACO algorithms.
- Introduced coding through teaching how to use basic functionalities, through hands-on experience in developing and debugging

### THE UNIVERSITY OF TEXAS AT AUSTIN, Austin, TX

Aug 2020 - Present

*Undergraduate Research Assistant; School of Architecture: Urban Information Lab*

- Focused on over 100 U.S. cities through transport data analysis to understand the historical mobility trends of census-tract parcels.
- Pipelined American city transport data in Python, leading to spatial analysis and mapping via ArcGIS and statistical analysis in R.

### PHILLIPS 66, Houston, TX

Jun 2020 - Aug 2020

*Data Engineer Intern; Information Technology: GM, Strategy, Architecture & Analysis: Data Engineering*

- Built multiple end-to-end data pipelines in Azure Data Factory to process refinery data resulting in an annual 4 million USD of savings.
- Implemented SQL scripted Tableau analytics dashboards for the display and analysis of refinery product data from 13 refineries.
- Updated a process to ingest product transfer costs daily to solve a JSON filtration issue in Databricks that retrieves invalid data.

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY LINCOLN LABORATORY, Lexington, MA

Sep 2019 - Dec 2019

*Software Engineer Co-op; Engineering Division: Group 72- Fabrication Engineering: Electronics Assembly Technology*

- Augmented Node.js software connectors and Angular 2 UI in a material handling software, reducing component retrieval time by 90%.
- Implemented database-driven solutions to update and monitor inventory data in PostgreSQL to enable component transactions.
- Qualified the MYCronics system for the assembly and storage for over 20,000 electronic parts to automate component processing.

### NCR CORPORATION, Fort Worth, TX

May 2019 - Aug 2019

*Software Engineer Intern; Hospitality Division: Aloha Command Center Team*

- Developed React Bootstrap web app to remotely evaluate and upgrade point-of-sale (POS) terminals used in over 75,000 restaurants.
- Created an interactive and user-friendly ReactJS Web UI to display real-time data and vitals from POS terminals for clientele use.
- Built a Python script to compile and convert terminal vital data to CSV format from a REST API for enterprise analysis and validation.

## PROJECTS & VOLUNTEERING

### BLUEBONNET DATA

Jun 2020 - Dec 2020

*Data Fellow; Oklahoma State Senate District 45 (Jen Wilkinson)*

- Worked as a data science consultant to develop campaign data analytics, GIS visualizations, and key voter data assessments
- Created campaign strategies from previous electoral and demographic shapefile data to map the 97% of the candidate's precinct.

### THE UNIVERSITY OF TEXAS AT AUSTIN, Austin, TX

Jan 2020 - May 2020

*Undergraduate Research Assistant; School of Architecture: Urban Information Lab*

- Explored whether algorithmic suggestion feedback loops in online retail cause consumers to lose jurisdiction over their choices.
- Assessed and analyzed the impact of advertisements on the user selections via studying user selections and their response times.

## ACTIVITIES & LEADERSHIP

- The University of Texas; Student Conduct and Academic Integrity Peer Ambassadors President Aug 2020 - Present
- Machine Learning and Data Science Club; Outreach Officer Jun 2020 - Present
- Freetail Hackers; Outreach Team Organizer Feb 2019 - Present
- President's Award for Global Learning; Japan Team Member Sep 2020 - Present