Aimun Khan

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EDUCATION

The University of Texas at Austin Spring 2020
Bachelor of Science, Electrical and Computer Engineering GPA: 3.5
Electives: Mobile Computing (Graduate Course), Concurrent & Distributed Systems Minor: History
Bachelor of Arts, Mathematics
Electives: Predictive Analytics, Number Theory, Mathematical Statistics

TECHNICAL SKILLS

Proficient in: Python, Java, C, C++, Linux (Bash)
Familiar with: JavaScript, R, SQL
Technologies: GCP, Kubernetes, Docker, Jenkins, Pandas, AWS

TECHNICAL EXPERIENCE

Cloud Services Engineering Intern - *Palo Alto Networks (Santa Clara, CA)* May - August 2019
· Migrated on-premise service to Google Cloud using Kubernetes to eliminate data center costs
· Implemented Python and Node.js scripts as microservices to be more scalable
· Utilized Helm, Nginx, Redis, MongoDB, RabbitMQ to implement security service

Student Developer Fellow at Google - *Contracted through Adecco (Remote)* January - April 2019
· Developed machine learning models to predict closeness of NCAA March Madness games
· Quantified competitiveness of basketball games into measurable statistics
· Showcased project to attendees and developers at Google Next 2019

Software Development Intern - *Fujitsu Network Communications (Dallas, TX)* May - August 2018
· Implemented server-based multi-QEMU emulation via Docker Swarm
· Designed Amazon Echo skill to check status of Jenkins builds using AWS Lambda

ACADEMIC PROJECTS

HackTX 2018 - Winner of Security Challenge *Python, JavaScript, React, Firebase, Microsoft Azure*
· Multi-factor voice autentication login client, uses neural network and SVM to identify speakers
· Third place overall out of 720 participants from 32 universities, 10 states/provinces

Basketball Predictive Analytics *D3.js, Scikit-Learn, Pandas, Numpy, Python*
· Created tool to visualize stats and new position labels for NBA players via clustering
· Used shot history of players to prove weak correlation of the hot hand phenomenon

Music Recommendation Prediction Model *Scikit-Learn, Pandas, Numpy, Python, AWS*
· Designed machine learning algorithm to predict music tastes based on listening history
· Cleansed and performed feature engineering on 280GB dataset of song information

Freetail Hackers Spring Hackathon - 2nd Place *JavaScript, Paper.js, Howler.js, HTML*
· Developed web app that uses interactive audio and visuals to combat user anxiety
· Coordinated with team of four to develop audio and implement app in 8 hours

Web Scraping Registration Tool *Python, Selenium, SMTPlib, cryptography, Docker*
· Scrapes UT registration for opening of closed classes, emailing user within 30 seconds
· Used Selenium webdriver to log in, deployed script via AWS Docker container

LEADERSHIP EXPERIENCE

Undergraduate Peer Advisor - *UT ECE* January 2019 - Present
Software Design & Implementation Teaching Assistant - *UT ECE* August 2018 - Present
First-Year Student Mentor - *UT ECE* August 2018 - December 2018
Debate Coach and Consultant - *National Speech and Debate Association* August 2016 - Present