

# Aimun Khan

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## EDUCATION

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**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 Science and Arts, Mathematics**  
Electives: Predictive Analytics, Number Theory, Quantum Information Science

## TECHNICAL SKILLS

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

## TECHNICAL EXPERIENCE

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**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 stakeholders 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

**Debate Consultant - National Speech and Debate Association** August 2016 - Present  
· Coached state champion, junior national champion, third or better at every Texas TOC qualifying tournament  
· Qualified 5 debaters to Tournament of Champions, 3 to Nationals, and 10 to State in Lincoln Douglas Debate  
· Practice with students weekly on presentation skills, research, adapting to different audiences, critical thinking

## ACADEMIC PROJECTS

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**HackTX 2018 - Winner of Security Challenge** *Python, JavaScript, React, Firebase, Microsoft Azure*  
· Multi-factor voice authentication 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

## LEADERSHIP EXPERIENCE

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**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