

# Aimun Khan

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## SKILLS

**Proficient with:** Python, Java, Node.js, JavaScript, MongoDB, Redis, Docker, Kubernetes

**Familiar With:** C++, Bash, R, SQL, Kafka, RabbitMQ

**Technologies:** Flask, Django, React, AWS, GCP, Azure

**Work Eligibility:** Eligible to work in the U.S. with no restrictions

## EXPERIENCE

**Palo Alto Networks – Software Engineer;** Santa Clara, CA

August 2020 - Present

- Implemented OAuth 2.0 client credentials flow for syncing identity information to network and cloud security platforms
- Aligned product, technical writing, QA, and UI teams on requirements for new onboarding flow for customers
- Integrated existing Cloud Identity Engine platform with new vendor directories using SCIM 2.0 standard
- Developed end-to-end real-time statistics pipeline for 5G data of tens of thousands of SD-WAN users
- Optimized data migration at scale to be 10x faster for large frequently-accessed MongoDB collections
- Wrote REST APIs for MVC app in Java and Python using MongoDB, Kafka, Redis, Nginx, Flask, Play

**Palo Alto Networks – Software Engineering Intern;** Santa Clara, CA

May 2019 - August 2019

- Migrated on-premise directory sync service to Google Cloud using Kubernetes to eliminate jump server costs
- Automated deployment of directory sync microservices, Nginx, Redis, MongoDB, and RabbitMQ using Helm

**Google (contracted through Adecco) – Student Developer Fellow;** Remote

January 2019 - April 2019

- Developed machine learning models to predict closeness of NCAA March Madness games
- Quantified abstract basketball concepts into measurable statistics
- Showcased project and results to developers at Google Next 2019

**Fujitsu Network Communications – Software Development Intern;** Dallas, TX

May 2018 - August 2018

- Prototyped server-based multi-QEMU emulation via Docker Swarm to improve simulator scalability
- 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*

- Built multi-factor voice authentication login client that uses neural network and SVM to identify speakers
- Placed third 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
- Analyzed shot history of players to prove weak correlation of the hot hand phenomenon

**Web Scraping Registration Tool**

*Python, Selenium, SMTPlib, cryptography, Docker*

- Wrote tool to scrape UT course registration for opening of closed classes and email user within 30 seconds
- Used Selenium webdriver to log in, deployed script via AWS Docker container

**Terminal Live by Citadel and Correlation One 2019 - UT Austin Winners**

*Proprietary programming language*

- Won team tournament for implementing algorithm to play a tower defense game vs other algorithms
- Implemented solution in proprietary programming language in limited timeframe after learning game rules

## LEADERSHIP EXPERIENCE

**War Room Debate LLC - Founder**

April 2020 - August 2020

- Wrote curriculum, hired, and virtually managed team of 17 instructors to teach 46 high school debate students
- Qualified 11 alumni to the 2021 Tournament of Champions (85 qualified nationally)

## EDUCATION

**The University of Texas at Austin**

Bachelor of Science, Electrical and Computer Engineering  
Bachelor of Science and Arts, Mathematics  
Minor: History

May 2020  
GPA: 3.5