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 security platform
- 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, 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	May 2020
	Bachelor of Science and Arts, Mathematics	GPA: 3.5
	Minor: History	