Aimun Khan

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Cloud security engineer with strong software engineering skills. Experience working on both product and InfoSec teams.

EXPERIENCE

Block (Square) – *Security Software Engineer*; Remote **October 2022 - Present**

- Maintained services to surface misconfigurations and vulnerabilities for 12000 users' public cloud usage
- Leveraged CSPM and DSPM tools to aggregate and generate risk and insights metrics for all business units
- Headed campaign to reduce public S3 bucket risk by detecting real-time public reads of sensitive assets
- Designed and implemented a Looker dashboard to model issue density by utilizing Snowflake warehouse data
- Created secure Terraform modules for product teams to securely build and use cloud resources
- Utilized Python, Golang, Terraform, AWS Security, GCP Security, Wiz, Prisma Cloud, Lambda, DynamoDB

Palo Alto Networks – *Software Engineer*; Santa Clara, CA f**August 2020 - October 2022**

- Implemented OAuth 2.0 client credentials flow for syncing IAM information from Azure to cloud security platforms
- Implemented 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
- Utilized Python, Java, MongoDB, Kafka, Redis, Nginx, Flask, Play Framework

War Room Debate LLC – *Founder*; Remote **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)

Palo Alto Networks – *Software Engineering Intern*; Santa Clara, CA **May 2019 - August 2019**

- Migrated on-premise security service to Google Cloud using Kubernetes to eliminate data center costs
- Implemented Python and Node.js scripts as microservices to be more scalable

Google – *Student Development Fellow*; Remote, contracted through Adecco **January 2019 - April 2019**

- Implemented predictive models on NCAA March Madness games using unsupervised machine learning
- Quantified competitiveness of basketball games into measurable statistics showcased at Google Next 2019

Fujitsu – *Software Development Intern*; Richardson, TX **May 2018 - August 2018**

- Implemented server-based multi-QEMU emulation via Docker Swarm, tripling servers' network blade emulation
- Designed Alexa Skill for Amazon Echo to check status of Jenkins builds and network blades using AWS Lambda

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 a weak correlation of the hot hand phenomenon

Web Scraping Registration Tool *Python, Selenium, SMTPlib, cryptography, Docker, AWS EKS*

- 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

EDUCATION

The University of Texas at Austin May 2020
Bachelor of Science, Electrical and Computer Engineering GPA: 3.5
Bachelor of Science and Arts, Mathematics Minor: History

SKILLS

Languages: Python, Java, Go, JavaScript (Node.js, TypeScript), C++, SQL
Technologies: AWS, GCP, Azure, Terraform, Docker, Kubernetes, PostgreSQL, MongoDB, Redis, Flask, Django
Domains: Cloud security, threat modeling, backend development, full stack development, infrastructure engineering
Work Eligibility: Eligible to work in the U.S. with no restrictions