

Ahmad Khan

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Education

ETH Zürich

M.Sc. IN COMPUTER SCIENCE

- Got a Chun Shin-II Scholarship which is given to promising students in CSE Dept.

Zürich, Switzerland

Sep. 2023 - Nov. 2025

Carnegie Mellon University in Qatar

B.Sc. IN COMPUTER SCIENCE

- Got a Chun Shin-II Scholarship which is given to promising students in CSE Dept.

Doha, Qatar

Aug. 2017 - May. 2021

Work Experience

IBM Research

MACHINE LEARNING ENGINEER (MASTER'S THESIS)

- Provisioned an easily managable hybrid infrastructure(Amazon AWS + On-premise) utilizing IaC(Infrastructure as Code) tools like Ansible, Packer and Terraform.
- Built fully automated CI/CD pipelines on CircleCI for containerized applications using Docker, AWS ECR and Rancher.
- Designed an overall service architecture and pipelines of the Machine Learning based Fashion Tagging API SaaS product with the micro-services architecture.
- Implemented several API microservices in Node.js Koa and in the serverless AWS Lambda functions.
- Deployed a centralized logging environment(ELK, Filebeat, CloudWatch, S3) which gather log data from docker containers and AWS resources.
- Deployed a centralized monitoring environment(Grafana, InfluxDB, CollectD) which gather system metrics as well as docker run-time metrics.

Zürich, Switzerland

May. 2025 - Present

Qatar Computing Research Institute

SOFTWARE ENGINEER

Doha, Qatar

Oct. 2021 - Sep. 2023

Quickbyte

FOUNDING SOFTWARE ENGINEER

- Lead engineer on agent-less backtracking system that can discover client device's fingerprint(including public and private IP) independently of the Proxy, VPN and NAT.
- Implemented a distributed web stress test tool with high anonymity.
- Implemented a military cooperation system which is web based real time messenger in Scala on Lift.

Doha, Qatar

Dec. 2020 - June. 2021

Carnegie Mellon University

RESEARCH ASSISTANT

- Developed in Cocos2d-x an action puzzle game(Dragon Buster) targeting U.S. market.
- Implemented API server which is communicating with game client and In-App Store, along with two other team members who wrote the game logic and designed game graphics.
- Won the 2nd prize in final evaluation.

Doha, Qatar

Jan. 2013 - Feb. 2013

Projects

Curiosity: Analyzing Human Questioning Behavior and Causal Inquiry through Curiosity-Driven Queries

SUBMITTED TO EMNLP FOR REVIEW. PREPRINT AT [HTTPS://ARXIV.ORG/PDF/2405.20318](https://arxiv.org/pdf/2405.20318)

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

Seoul, S.Korea

Nov. 2017

6th CodeEngn (Reverse Engineering Conference)

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

Seoul, S.Korea

Jul. 2012

Honors & Awards

2021	Andrew Carnegie Society Scholar , Carnegie Mellon University	Pittsburgh, U.S.A
2021	Qatar Campus Scholar , Carnegie Mellon University in Qatar	Doha, Qatar
2021	Student Leadership Award with Distinction , Carnegie Mellon University in Qatar	Doha, Qatar
2020	Best Design award , CarnegieApps Hackathon	Doha, Qatar
2019	First Place , Oman Collegiate Programming Competition	Muscat, Oman
2019	First Place , CMUQ Programming Competition	Doha, Qatar
2019	First Place , Qatar University Cybersecurity Competition organized by Thales	Doha, Qatar
2018	Best Technology Prize , CarnegieApps Hackathon	Doha, Qatar
All Semesters	Dean's Honors List , Carnegie Mellon University in Qatar	Doha, Qatar

Extracurricular Activity

PoApper (Developers' Network of POSTECH)

Pohang, S.Korea

CORE MEMBER & PRESIDENT AT 2013

Jun. 2010 - Jun. 2017

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

PLUS (Laboratory for UNIX Security in POSTECH)

Pohang, S.Korea

MEMBER

Sep. 2010 - Oct. 2011

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.