

AHMED JAZZAR

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San Jose, CA

SKILLS

Languages	Python, C, C++, Java, JavaScript, TypeScript, Bash, Java, HTML, CSS, Go, Ruby, C
Technologies	Terraform, Kubernetes, Helm Charts, Memcached, Redis, Prometheus, Elasticsearch
Frameworks	Django, Flask, Angular, Next.js, React.js, Spring Boot
ML&AI	MLOps, Anomaly Detection, Natural Language Processing, TF-IDF, TensorFlow, Generative AI
Cloud Providers	Google Cloud Platform (GCP), Amazon Web Services (AWS), IBM Cloud, Microsoft Azure
DevOps	Github Actions, Jenkins, Travis CI, CircleCI, GitLab CI, Docker, Vagrant
Databases	MySQL, Postgres, MongoDB, DynamoDB
APIs	RESTful APIs, GraphQL, gRPC
Soft Skills	Technical leadership, Project Management, Team Supervision, Mentoring Distributed Teams

PROFESSIONAL EXPERIENCE

Walmart Sunnyvale, CA
Software Engineer 2023 – 2024

Led Python-powered MLOps backend initiatives, ML engines, GenAI integration, and co-authored a research paper.

- Managed and developed a Root-Cause Recommendation engine to enhance large systems triaging.
- Developed Walmart's GenAI project, and connected it with 80% of Walmart's services and RCR service.
- Led ML Engineers developing text analysis and NLP tools, processing ~8,000 product queries/month.
- Co-Authoring a research paper on our work on Root-Cause Recommendation and Gen AI projects.

Google San Bruno, CA
Software Engineer 2022 – 2023

Built Python-powered automation tools on Kubernetes, reducing workload for Google and Open-Source Engineering,

- Automated Cobalt browser release process, cutting Google and Open-Source Engineering time.
- Architected and sustained Cobalt secure microservices integral to CI/CD operations.
- Influenced product design and security reviews, driving success across 15 product releases.
- Built tools boosting development velocity and elevating code quality in a large system.

IBM San Jose, CA
Software Engineer 2021 – 2022

Developed Accelerated Discovery algorithms with Python AI Django, optimized microservices for global file copy, enhanced code security, and streamlined CI/CD pipelines for large-scale genetics systems.

- Designed and developed Accelerated Discovery quantum computing, AI, and hybrid cloud algorithms.
- Developed microservices to fix the performance of huge-file copy operations from across the globe.
- Developed services to analyze code risks on clusters, delivering notifications, enhancing code security.
- Optimized the CI/CD pipeline to accelerate build and deployment for large scale systems.

Appsembler San Jose, CA
Senior Software Engineer 2019 – 2021

Developed products and tools with Python, React, Django, Python, and GCP.

- Designed a relational database cluster objects CRUD tool using Graph theory algorithms.
- Led design and development of an in-cloud development tool using Shell, Python and GCP APIs.
- Developed a cost-tracking integration to provide stakeholders real-time updates on cloud spending.
- Developed a customer off-boarding pipeline using Python, Ansible and new data structures.
- Led and planned the migration of Appsembler Learning Labs to a Next.js frontend.

Edraak.org

Senior Software Engineer

Junior Software Engineer

Intern Software Engineer

Amman, Jordan

2017 – 2018

2015 – 2017

2015

Developed scalable Edtech solutions, Users Management Solution, ML-powered Search Engine using Python, Django, React. Led Edraak's K-12 platform, and launched Edraak Research platform.

- Scaled and developed accessible technologies to manage over 2 million requests per minute.
- Developed and led a Users Management Solution, drastically reducing third-party service costs.
- Conducted Design Sprints with Google.org to develop an educational app for elementary schools.
- Architected and built a platform Search Engine utilizing machine learning for personalized results..
- Designed learning interventions and early course completion prediction models.
- Optimized database queries and code complexity, significantly reducing computation time.
- Led technical development of Edraak's K-12 online platform, supporting thousands of school students.
- Developed and launched Edraak Research platform, empowering researchers in the MENA region.
- Developed a video processing pipeline to interruptions for students with slow internet connections.
- Designed Edraak's website SEO solution, elevating search engine ranking to first to third position.
- Contributed to the enhancement of the Open edX platform and systems.

EDUCATION

MS in Engineering Management

International Technological University

2018 – 2019

San Jose, CA

BS in Computer Science

University of Jordan

2011 – 2015

Amman, Jordan

PUBLICATIONS

ChatOps driven AIOps System

Ahmed Jazzar and others

2024

A conversational troubleshooting system allows for real-time incident detection, triaging, and mitigation.

A new graph approach to Data Compression

Supervised by Professor Munther Dahleh

2013

A new graph-based algorithm that allows for better data compression.

Detecting Graph Symmetries

Supervised by Professor Karem Sakallah

2012

A new algorithm capable of detecting symmetries within vertex-colored undirected graphs.

PROJECTS

arabic-nlp

The Arabic NLP Library for Python.

django-mako

The first simple, elegant Mako library for Django.

Gestore

A set of tools that will help you to manage Django objects in the database.

flapjacks

A project to automate video transcoding and uploading to YouTube in the cloud.

dispatch-workflow

A repo-agnostic Github workflow initiator.

INTERESTS

Tennis, Podcasting, Soccer, Hackathons, Sales, Digital Art, Public Speaking.