

AHMED JAZZAR

Software Engineer

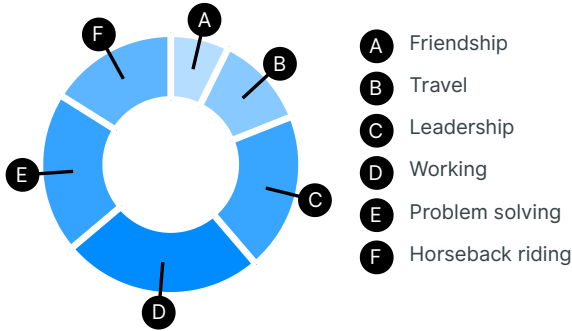
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San Jose, California, USA



MY TIME



EXPERIENCE

Senior Software Engineer

Appsembler

07/2019 - Ongoing San Jose

An experiential learning platform lets you easily deliver Open edX courses and virtual IT Labs to make your training more immersive.

- Developing an in-cloud development toolkit helping the team delegate 70% of their work load to the cloud VMs.
- Reducing the cloud cost by 70% after running deep billing analysis and reflecting findings on infrastructure and teams.
- Building the first CI/CD for company's products which covers 40% of the test code.
- Building a client off-boarding and a user off-boarding tools to make the product a GDPR compliant one.

Senior Software Engineer

ClearCare Online

05/2019 - 07/2019 San Francisco

Home care software solutions for agencies.

- Migrated the existing 40% of the monolithic Django application to a distributed systems serverless architecture.
- Increased the efficiency of the API calls and database querying by remodeling the data structure.

Senior Software Engineer

OpenCraft

07/2018 - 11/2018 San Jose, CA

Hosts and delivers online courses on the Open edX platform.

- Worked with a B2B organization on gathering business requirements from different business and setting plans and roadmaps for each project.
- Active contributor to more than five open-source projects.
- Developed Python and Django Web Framework solutions to meet different business needs.

MY LIFE PHILOSOPHY

Learn as though you would never be able to master it; hold it as though you would be in fear of losing it.

Confucius

FIND ME ONLINE



Website

<https://www.ahmedjazzar.com>



Github

<https://www.github.com/ahmedaljazzar>



Twitter

@iamjazzar



LinkedIn

<https://www.linkedin.com/in/iamjazzar>

EDUCATION

MS in Engineering Management

International Technological University

2018 - 2019

GPA

3.53 / 4.0

BS in Computer Science

University of Jordan

2011 - 2015

GPA

3.59 / 4.0

A certificate in Computer Science

Ibn Sina School for Computer Science

2012 - 2014

GPA

3.3 / 4.0

ACHIEVEMENTS



Best m-Government Service Award

Honored in the World Government Summit by Sheikh Mohammed bin Rashid Al Maktoum.



A Scholarship towards a Computer Science Bachelors Degree

Honored by the ministry of Education and Higher Education in Palestine.

EXPERIENCE

Senior Software Engineer & Privacy Owner

[Edraak.org](#)

📅 01/2018 - 07/2018 📍 Amman, Jordan

Edraak, is a massive open online course (MOOC) platform, that is an initiative of the Queen Rania Foundation (QRF).

- Scaling the technology up to allow it better impacting the lives of over 2 million learners.
- Built internal Users Management Solutions with the marketing team which reduced the cost of using third-party services by 99%(\$5000-\$20).
- Developed an internal A/B testing tool using Redis and Django that fits our business needs and highlights the most requested metrics with 0\$ running cost.
- Wrote our first privacy policy that complies with GDPR and Turkey's DPL after extensive meetings with the dev, the lawyers, and the business departments.
- Conducted three Design Sprints with Google to build an educational app for students in 1st to 4th grade in the Arab region.
- Developed Edraak's first Search Engine that leverages machine learning to deliver user-specific results using Elastic Search, TensorFlow, and Python.

Senior Software Engineer

[Queen Rania Foundation for Education and Development](#)

📅 01/2017 - 12/2017 📍 Amman, Jordan

The Queen Rania Foundation (QRF) has aimed to be the premier resource on educational issues, in Jordan and around the Arab world, and to act as an incubator for new ideas and initiatives.

- Developed and designed learning interventions and early course completion predictions model running experiments on 500,000+ learners with a 0.87 AUC.
- Optimized database queries and code complexity using Django ORM and MySQL queries which reduced the computation time from 6 hours to 30 seconds.
- Introduced new documents bucketing approach for our MongoDB collections that speed up the documents lookup by more than 80% across databases.
- Customized edX App to build Edraak's first iOS application that served more than 100,000 users on iOS.
- Lead the technical efforts of the team on developing Edraak's K-12 online platform that currently serves more than 35,000 school students for 12 sprints.
- Contributed 280+ change, released to ~2M learner, to the Edraak edX platform and systems.

Junior Software Engineer

[Queen Rania Foundation for Education and Development](#)

📅 08/2015 - 12/2016 📍 Amman, Jordan

Company Description

- Launched Edraak Research platform allowing researchers in the MENA region to design better targeted educational research by leveraging educational data to create useful course materials and to support under-performing learners.
- Developed a Video Processor pipeline using AWS Notifications, Lambda, and Elastic Transcoder with building a custom Youtube deployer.
- Customized edX App to build Edraak's first Android mobile app that currently serves 13K user/ month.
- Contributed substantial changes to edX Android App that allow the app to support analytics and tracking services to suit the open-source community needs.
- Contributed 150+ change, released to ~1M learner, to the Edraak edX platform and systems.

PUBLICATIONS

Detecting Graph Symmetries

[University of Michigan / Ibn Sina School for Computer Science](#)

Supervised by Professor Karem Sakallah

📅 2012

🔗 <https://www.ahmedjazzar.com/assets/detecting-graph-symmetries/paper.pdf>

The goal of this project was to develop a computer program for detecting symmetries in vertex-colored undirected graphs.

Data Compression: Theory and Demonstration

[Massachusetts Institute of Technology / Ibn Sina School for Computer Science](#)

Supervised by Professor Munther Dahleh

📅 2013

🔗 <https://www.ahmedjazzar.com/assets/data-compression/paper.pdf>

Explored the foundations of data compression using elements from information theory. The project is broken down into four milestones that lead us through understanding the various components of Data Compression.

SKILLS

Frameworks

[Django](#) [Bootstrap](#) [Angular.js](#)

[React.js](#) [Flask](#) [Ruby on Rails](#)

[Serverless](#)

Languages

[Python 2](#) [Python 3](#) [Java](#) [C++](#)

[Swift](#) [HTML](#) [Javascript](#) [CSS](#)

[SASS](#) [LESS](#) [Bash](#)

Templating Languages

[Django Templates](#) [Mako](#) [Jinja 2](#)

Programming Skills

[A/B Testing](#) [Selenium](#)

[Multi-threading](#) [Multi-processing](#)

[ReSTful APIs](#) [Scripting](#) [Unix](#)

[OSx](#) [Lambda Functions](#) [AppSync](#)

EXPERIENCE

Intern Software Engineer

Queen Rania Foundation for Education and Development

📅 05/2015 - 08/2015 📍 Amman, Jordan

Company Description

- Built Edraak's website SEO solution on Django to rank us in the first position after years of being in the second page.
- Integrated and built Edraak's blog using WordPress which currently contains 190K view, 75+ post and, 865+ comment.
- Contributed 50+ change, released to ~500K learner, to the Edraak edX platform and systems.
- Built a translation pipeline that works with different text sources and formats after working on internationalizing and localizing the platform.

VOLUNTEERING

Global Shaper

World Economic Forum

📅 2016 - Ongoing

The Global Shapers Community is a network of young people driving dialogue, action and change.

Local Organizer

Global Goals Jam

📅 2017

A two day event consisting of short design sprints. Creative teams of designers, developers and Jammers from the local community.

Program Developer

King Abdulla II Fund for Development

📅 Date period

KAFD aims to support the Jordanian community by driving human and infrastructure development.

INDUSTRY EXPERTISE

Project Management



Sprint Planning



Web Development



Android Development



Online Pedagogical Design



Open Source Development



CERTIFICATION

Oracle Certified Associate, Java SE 7 Programmer

Oracle

App Design and Development for iOS

University of Toronto

Introduction To Swift Programming

University of Toronto

SKILLS

Code Versioning Tools

Git SVN

Cloud Providers

Amazon Web Services (AWS)

Google Cloud Platform (GCP)

Databases

MySQL PostgreSQL MongoDB

DynamoDB Memcached SQLite

Methodologies

TDD Agile Scrum Kanban

Waterfall

Google Cloud Platform Skills

APIs & Services Compute Engine

Kubernetes Engine Storage

Container Registry

Amazon Web Services Skills

Lambda S3 IAM RDS SNS

Route53 EC2 IoT CloudWatch

CloudFront

IDEs & Text Editors

PyCharm Eclipse NetBeans

Atom Sublime Text Android Studio

Xcode