

Ahmad Mohsen

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EDUCATION

Bachelor of Computers and Systems Engineering UNIVERSITY

AIN SHAMS
2013-2018

Accumulative Grade: Good.

Graduation Project: Excellent.

General Secondary Certificate

2013

Grade: 99%.

EXPERIENCE

Upwork - Freelancer Python Developer 8/2018 - now

- Profile link: **Ahmad Mohsen**, Working on various projects: Scripting, NLP, Cryptography, GUI development, Chatbot development, Database and AWS Management.

ItsACheckmate - Software Engineer Remotely (US based company) 6/2020 - now

- Working with a diverse team of 150 members located in USA, Canada and India.
- Software Engineer using Ruby on Rails, ReactJS, and NodeJS-puppeteer crawlers
- Integrating various 3rd party delivery platforms such as GrubHub, UberEats, Postmates, Ritual and 35 others directly to various Point of Sale systems of more than 5k clients, handling more than 3M requests a month.

Robusta Studio - Software Engineer 5/2019 - 8/2020

- Working in Agile environment on various backend projects using Ruby on Rails.
- Working on Apps deployment using Kubernetes and docker.
- Using OOP and Design patterns, SQL/NoSQL DBs.

GoPlus - Part time Back-End Developer 4/2019 - 6/2019

- Worked on the Backend of Ministry of interior's traffic management system Using Python-Django and MySQL db.

Appspro - Oracle PaaS Developer 4/2018 - 12/2018

- Worked on developing Chatbots using oracle frameworks and NodeJS for backend.

Asyad Capital - Intern 8/2017 - 9/2017

- The 1st phase of the internship was focused on Big data Analytics tools and techniques using: Spark, Hadoop and Elasticsearch.
- The 2nd phase was focused on information security and pentesting, using Kali Linux tools.

Ministry of Communications and Information Technology - Intern 7/2017

- Attended an internship at MCIT in which I learnt Fundamentals of Windows Server® 2008 Network and Applications Infrastructure Curriculum "MS Course 6420A".
- VMware and server virtualization.

Creative Bits - Tutor 3/2016 - 11/2017

- Worked as programming, robotics, mathematics, and physics instructor at AUC summer camps for youth.

SKILLS

- Working methodology: Agile/Scrum using Jira.
- Programming languages: Python, C++, Ruby.

- Programming Skills: Design Patterns, OOP, Data Structures, OpenCV, PyQt.
- Basic knowledge of ML/NN.
- Scripting: Python, shell.
- HTML, CSS, Bootstrap, Django framework, Ruby on Rails.
- DevOps: Kubernetes, Docker, git, gitlab APIs, gitlab-ci.
- Database Design, SQL, MySQL, NoSQL.
- APIs: GraphQL, RESTful APIs

COURSES

-Andrew Ng Deep Learning Specialization - **Coursera**

-Complete Python Bootcamp - **Udemy**

-Automate the boring stuff with Python - **Udemy**

-Python for Data Structures and Algorithms - **Udemy**

PROJECTS

DevOps -Various apps deployment- (Kubernetes, Docker, Nginx, gitlab-ci)

Containerizing and deploying projects using Kubernetes and docker on linux servers, worked on gitlab pipelines configuration.

Vodafone Begin -Freelancing Platform- (RoR, Postgres, RESTFUL APIs, Sidekiq, Kubernetes, Payment, SendGrid)

Complete freelancing platform with the following functionalities: job posting, client profile, freelancers bidding, freelancer portfolio, live chats, live notifications, payment integrations, mailers integrations and an Admin dashboard: deactivating users, removing jobs, monitoring chats, viewing transactions.

FarmRaiser -Fundraising Platform- (RoR, MySQL, MVC, Sidekiq, Kubernetes, Stripe, SendGrid, Erply)

The platform is a fundraising platform for school students using organic products. Students run campaigns managed by organizations to sell products from registered vendors, products are distributed by volunteers, all through the App, Admin dashboard with ability to login and monitor each of the three personas, all the system is backed up on Linode and all the payments are synced to Stripe.

Taleeme -Courses Platform- (Ruby, Hanami, GraphQL, REST APIs, Tus, Postgres, Sidekiq, SendGrid)

Online platform providing parenthood/childhood courses, Admin dashboard monitoring courses and progress; online video streaming, resumable Video upload using Tus, Tree structured database for courses and content.

Network Managing System -Long term Upwork project- (Python, MySQL, Ubuntu, AWS db streaming, raspberry pi)

Using python scripts on raspberry pi; surrounding network traffic is captured and saved to MySQL db, data is divided to devices names and time when connection started and ended, users' behavior, access points to which users get connected and others, after which certain management techniques are being applied, like blocking some devices or blocking certain behavior, all the data is being stored on memory tables for better performance after which it's transferred to innoDB tables, and periodically tables are being exported to MySQL db on AWS to save all the records regardless of the space limitation on the raspberry pi memory cards.

Deep Packet Inspection Engine -Smart Firewall- (nDPI, MySQL, mininet, RYU, Python, C, Django) -Graduation Project-

A Smart firewall in a simulated topology, where everything in the network -like accessing the internet, sending data from hosts to others, blocking some protocols and letting others through, etc- can be managed by the network administrator using a user-friendly UI built using python and Django; analyzing the network is done upon a certain set of data representing network traffic -captured by both nDPI and Scapy and saved to MySQL database after being well parsed and choosing the desired data- Functionalities: collecting devices IPs, collecting IPs of servers hosting web applications, blocking some web applications and allowing others, setting data quota limitation for each device and other features.

Big Data Search Engine (Apache Spark, Python) -Group Project-

Using Apache spark on ubuntu and python scripts, we built a big data managing tool, which was used to search over a set of data.

Packet Sniffer (Python) -Group project-

A packet sniffer like Wireshark using Scapy and PyQT for the GUI.

Encryption and Decryption tools (Python and C++) -individual work-

Implementations of different encrypting/decrypting algorithms, like Playfair cipher, HILL cipher, Vigenere, DES, AES and others.

Matrix Calculator (C++) -individual work-

Polygon Analyzer (C++) -individual work-

LANGUAGES

-Arabic (mother tongue).
(Fair).

-English (Fluent).

-French