

Education

Carnegie Mellon University

Bachelor of Science in Computer Science

Graduated Dec. 2016

- **Minor in Mathematical Sciences**
- **Dean's Honors List**
- **Key Courses:** Machine Learning, Deep Learning, Distributed Systems, Web Application Development, Perceptual Computing, Combinatorics, Graph Theory, Abstract Algebra, and Constructive Logic

Professional Experience

Rimads (HealthCare Startup) – Software Engineer

Dec. 2016 – Jun. 2017

- Developed a medical information extraction system capable of understanding books and journals
- Built a medical knowledge base comprised of more than 2,500 diseases and 15,000 symptoms
- Trained a medical word2vec to refine our medical knowledge base
- Built a web-based medical data collection tool using Django that offers data collection and validation by doctors
- Developed and trained a neural network to assist in the medical diagnosis; increasing accuracy by %20
- Implemented internal tools using NodeJS and AngularJS to sanitize and visualize the data
- Automated the infrastructure using Docker to ease the deployment and integration of services

Siemens W.L.L – Software Engineer

Aug. 2016 – Nov. 2016

- Implemented a full-stack web application using AngularJS and NodeJS to record attendance of ad-hoc employees on different projects
- Built a web-based reporting tool that tracked chiller room temperature at a large storage facility
- Integrated a new reporting tool for Siemens Building Management software using Microsoft SQL databases

Carnegie Mellon University – Course Assistant

Jan. 2016 – May 2016

- Assisted in teaching a senior-level course 15-437 Web Application Development
- Assisted in designing the course material and assignments focusing on Django and AngularJS
- Provided help in teaching the course by holding weekly workshops for students covering API security, Django, ReactJS, and Javascript

Qatar Computing Research Institute – Summer Intern

May 2015 – Aug. 2015

- Built a backend for a web application using NodeJS to visualize the progression of breast cancer as a tree utilizing MongoDB and Redis
- Implemented machine learning algorithms such as K-means and Competitive Hebbian Learning using Javascript
- Authored detailed technical documentation covering frontend, APIs, design methodologies, and web caches
- Automated and maintained testing of the backend APIs

Selected Projects

FileStack Developed a fully distributed file system with synchronization and replication

K-Cloud Implemented a parallel version of K-means using Hadoop MapReduce utilizing four machines in the cloud

Reporta (Won two major prizes in AlJazeera Network Hackathon) Developed a personal news reporter that works on Google Glass and the browser with a group of students and professionals. We developed our own NLP algorithms to turn official headlines into natural sounding conversation

Gaze Enhancement (Funded by QSIURP and granted a fund of \$5,500) Enhanced the gaze of a robot receptionist in uncontrolled environments; employing computer vision techniques and a Microsoft Kinect sensor

Jitalk Real time chat service to allow people who speak different languages to communicate using symbols/emojis

Skills

Programming Languages Python, Javascript, C, Java

Operating Systems Linux/Unix, Mac OS, Windows

Languages Fluent in English and Arabic and intermediate in Spanish