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**Carnegie Mellon University**

2012 – 2016

- Minor in Business Administration

## Programming Languages: C, Java, Python, Hadoop, Assembly

**Web Development:** Django, NodeJS, Bootstrap, HTML5, JavaScript, CSS, LESS, AJAX, JSON

**Platforms:** Windows, Mac, Linux

**Related Courses:** Distributed Systems, Web Application Development, Embedded Systems

**Languages:** English, Arabic

## Metis Labs

## Software Engineering Intern

May 2016 – Present

A web based start up that provides an interactive planner for undergraduates to plan their upcoming semesters.

- Develop modular and scalable functionality to integrate new universities in to Metis (Python/Django)
- Design and develop abstract interfaces in backend to allow maximum modularity across universities
- Crawl online course catalogs to get latest course/schedule information of selected university (Scrapy, JSON)
- Populate database and update contents based on latest information fetched
- Develop importers to allow students to import previous taken courses with minimum effort (JavaScript)

## State of Mind, Collaborative Brainstorming Platform

Jan 2016

- Developed in 24 hours in the Carnegie Apps Hackathon 2016
- Web Application built with python Django
- Developed the Input text/image/doodle functionality
- Wrote interaction between back-end and front-end using AJAX
- Coded data processing and API function calls in back-end

Dec 2015

- Implemented K-Means algorithm for data-points and DNA strands using Hadoop MapReduce
- Performed comparative analysis for large data sets (20M - 40M points/strands)
- Compared Hadoop implementation performance to Sequential and MPI implementations

Sep – Nov 2015

- Distributed File System developed in Java
- Developed the RMI, to handle communication between Clients, the Naming Server and Storage Servers
- Coded Synchronization functionality using locking mechanisms and mutexes
- Wrote Replication functionality to spread load over servers and create backups in case of failures

## Back-End/Front-End Web Developer

May – Aug 2015

- Bilingual Web Application built with python Django (back-end) and Bootstrap (front-end)
- Wrote the interaction between the front-end and back-end using AJAX
- Developed the Moderator User functionalities similar to that of Reddit
- Coded the functionality and styling of JS forms, and handled requests, data and errors

**Carnegie Mellon University**

Jun – Aug 2014

- Received grant of \$4K from Student Initiated Undergraduate Research Project (SIURP)
- Built a Cross Site Scripting (XSS) benchmark to test XSS detection tools
- Used benchmark to test reliability of current web vulnerability scanners
- Produced a report on the research that was presented in Meeting of the Minds (April 2015)

**Strength Training Club, Student Club**

Sep 2014 – May 2015

## Bodybuilding and Powerlifting

## Technology and Gadgets