

Amir Refai

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EDUCATION

UNIVERSITY OF MICHIGAN

Bachelor of Science Engineering (Computer Science)

December 2018

- **GPA:** 4.00/4.00
- **Honors/Awards:** Dean's List (Fall 2015, Winter 2016), University Honors (Fall 2015, Winter 2016)
- **Course Highlights:** EECS 280, EECS 281, EECS 203, STATS 250

SKILLS

C#	PHP	CSS	MongoDB
C / C++	MySQL/SQLite	Java Script	Spring Framework
Java	Python	JQuery	Virtual Machines
Android App Development	Django Framework	HTML	

RELEVANT EXPERIENCE

Software Development Intern
Court Innovations

Ann Arbor, MI
Full time, May 2016 – August 2016
Part time, September 2015 – Present

- Implemented various features such as user management, parking transactions, and email notification systems from end to end using Spring framework, JSPs, and HTML/Javascript
- Worked with business, user experience, and marketing teams to ensure the product was as efficient and marketable as possible
- Created Mongo migration scripts in JavaScript to manage and maintain the database.

Software Development Intern
Ntrepid Corporation

Herndon, VA
Full time, Jun 2015 – Aug 2015

- Improved and refactored the license generation website to encrypt and change the data type of each license.
- Used the Django framework to provide a python backend and HTML/CSS/ Javascript front end in order to provide administrative features to the license generation website
- Responsible for efficiently migrating all the relevant Sqlite and MySQL data in the databases to the new license type.
- Worked with a team of twenty people to implement migrations, adapt code changes, and test accurately within the production environment
- Used agile software development model to organize work

Bioinformatics Intern/Researcher
Dr. Iosif Vaisman, George Mason University

Manassas, VA
Part time, Jun 2014 – Aug 2014

- Researched and developed a successful drug-resistance prediction model of Influenza A strains
- Used Python scripts, Java scripts and the fludb database to find, process, and analyze large amounts of data containing protein sequences
- Used machine learning techniques in order to find resistance characterizations up to 99% accuracy
- Worked with Dr. Iosif Vaisman and a partner to coordinate, analyze and present findings

PROJECTS

- | | |
|-----------------|---|
| Tending 2 Trend | <ul style="list-style-type: none">• Created an interactive website using Twitter API, Google Maps API, JavaScript, and PHP in order to track recent twitter trends by location and time.• Worked on a prediction model of the movement of trends using a linear regression model• Won best Microsoft hack for deploying the website on a Microsoft Azure server backend |
| Battery Saver | <ul style="list-style-type: none">• Created an Android application to track and graph battery plots based on a specified time period and settings• Created an auto-detection feature of the user's settings for ease of use |