Mitchell Lee

https://mnsupreme.github.io (626)-861-7861 mnsupreme@gmail.com
mnsupreme mitchell-lee

Languages

- Javascript - **intermediate**
- Python - **intermediate**
- HTML - **advanced**
- CSS - **advanced**
- Node.js - **intermediate**
- Matlab - **intermediate**
- SQL - **intermediate**
- C++ - **beginner**

Education

Purdue University
- *Graduated May 2019*
- Computer Information Technology
- Cyber Security
- **GPA** - 3.06

Stanford University (Coursera)
- 2018
- Machine Learning Cerficate

Coding Dojo
- 2016
- Full Stack Web Development Cerficate

General Assembly
- 2015
- Front End Web Development Certificate

Achievements

- **LA Hacks Gap Tech Challenge** 1st place *Spring 2015*
- **M Hacks Wolfram** 3rd Place Fall *Fall 2015*

Skills and Highlights

Cyber Security

- Cyber Security Graduate from Purdue University
- Analyzed malicious network traffic using Python in my Problems in National Security class
- Wrote teaching materials for "Python Scripting for Cyber Security" class

Data Science

- Received my Machine Learning certificate from Stanford's Online Coursera class
- Statistically analyzed large amounts of network traffic using Anaconda and Dask.
- Implemented an Unscented Kalaman Filter in Matlab to try to predict the movement of ground robots for a robotics competition

Web Development

- Lead a team of beginners to build and deploy a web app on AWS in 36 hours in my Subletr project
- Built a web application in Angular.js that ran on GM's prototype car dashboard at MHacks 2016
- Built a web based user and content management system and deployed it on Firebase
- Built a fully functioning web application for Lowe's during my internship

Professional Experience

Student Developer **3iD/IN3 (November 2016-August 2018)**

- Updated Client Websites
- Built a cloud based user management and content management console
- Wrote scripts for data collection and data cleaning
- One of my projects: https://cover-crop-tests.web.app/
- Technologies Used:

Python	Node.js	Javascript
HTML	CSS	Firebase

Web Development Intern **Lowe's Corporate (Summer 2017)**

- Built a web application to test an internal company API
- The web application received and formatted the JSON response from the internal API
- Unit tested the application with Lab.js
- Technologies Used:

Lab.js	Handlebars.js	Node.js
Javascript	HTML	CSS

Major League Hacking **Coach (November 2017 - May 2018)**

- Traveled to various colleges across North America to host programming competitions
- Mentored participants who needed help
- Conducted social media campaigns for company sponsors

Projects

Problems in National Security Project **CNIT 581 (Spring 2019)**

- Conducted data analysis on captured network traffic to find differences between benign and malicious network activity
- Cleaned and calculated descriptive statistics for large amounts of data
- Isolated and analyzed over 3 million data streams
- https://github.com/mnsupreme/581
- Technologies Used:

Python	Scapy	Anaconda

Python Scripting for Cybsersecurity **CNIT 481 (Spring 2019)**

- Created teaching materials for teaching a class on Python Scripting for Cybersecurity
- The material will be used in a graduate class taught at Purdue
- https://github.com/mnsupreme/Python_For_Cybersecurity
- Technologies Used:

Python	Scapy	Metasploit

Subletr **Big Red Hacks (Fall 2016)**

- Created a classfields website for subletting. Allowed users to post and reply to subleasing opporotunities
- Led a team of beginners
- Deployed on AWS
- https://github.com/mnsupreme/bigred
- Technologies Used:

Node.js	Angular.js	Mongo DB

Parent Lock **M Hacks (Fall 2016)**

- Created a car monitoring app built for GM'S prototype smart dashboard
- Allows parents to track their car's location
- https://devpost.com/software/parentlock-5k1ivn
- Technologies Used:

Node.js	Angular.js

Ground Robot State Estimator **Purdue International Aerial Robotics (Spring 2018)**

- Programmed a simulation to model ground robot movements
- Wrote an Unscented Transform to predict ground robot future positions
- refactored a computer vision application to detect ground robots
- Received Independent Study College Credit for my work

- https://github.com/purdue-arc/mission7_state_estimator
- Technologies Used:

  Matlab C++

Delta Skymiles Services **Hack Georgia Tech (Fall 2016)**

- Web Application that allowed users to spend their Delta Airlines credits on Lyft rides
- Used the Delta Airlines API and Lyft API
- I wrote the backend server and database functions
- learned a lot about integrating different user accounts from different applications (Delta and Lyft)
- https://devpost.com/software/delta-skymile-services
- Technologies Used:

  Python Flask SQLite

Wolfram Challenge **M Hacks (Fall 2015)**

- Helped write a job reccomendation site that ranked job listings by public sentinment of the employer
- The app scraped articles about the employer and computed a sentiment score from those articles
- I wrote a minimalist front end to display the ranked listings using bootstrap
- Technologies Used:

  HTML Jade Javascript

Gap Tech Challenge **LA Hacks (Spring 2015)**

- Helped write a web based management console to manage social media competitions for GAP
- The console tracked and displayed all posts containing certain hashtags using the Instagram api
- I wrote a minimalist front end using bootstrap
- Technologies Used:

  HTML Javascript