

# Mitchell Lee

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mnsupreme



Mitchell Lee

## Primary Education

Purdue University

Graduating May 2019

Computer Information Technology

GPA - 3.17

## Other Education

Vocational Certificate:  
Front End Web Development (2015)  
General Assembly

Vocational Certificate:  
Full stack Web Development (2016)  
Coding Dojo

## Skills

- Responsive Web Design (CSS, HTML, Bootstrap, Javascript, JQuery)
- Ruby
- Python Flask
- MEAN stack (Mongo DB, Express JS, Angular JS, Node JS)
- C#
- SQL/SQL workbench

## Current Involvement

[Purdue Association of Unmanned Vehicle Systems International](#); President

Our club seeks to equip our members with the skills and experience needed to find jobs in the field of unmanned systems. Since joining the club last year, I have been able to secure spaces on the school's supercomputers, access to advanced 3d printers, a workspace, as well as six thousand dollars of funding for our club

[International Aerial Robotics Team](#): Member

A sub-team of Purdue AUVSI. We are tasked with building an autonomous drone to herd ground robots. It mainly uses computer vision for tracking and localization. I am assigned to the robot arm team and artificial intelligence team

[Purdue Hackers](#): Member

Helps students improve their coding skills through the use of Hackathons and workshops

## Projects

Gap Tech Challenge First prize **LA Hacks 2015**

- Created a tool for a "who wore it better" contest to engage Gap's customers
- Our app scraped Instagram's API for specific hashtags relating to the contest
- I wrote a bootstrap employee console which embedded all the related posts on instagram with the hashtag
- Understanding what Gap truly wanted is what put us over our competitors
- Official name of the project is GapWWIB

Wolfram Challenge 3rd Place **M Hacks Fall 2015**

- Our app ranked jobs based on public sentiment of employers
- Written in Mathematica, Node.js and Jade
- Used a jobs posting website's API to get a list of employers and job postings
- Thousands of articles were ran through our sentiment analysis script and employers were given an aggregate sentiment score.
- I wrote a responsive front end using Jade and CSS flexbox
- Official name for this project is FluxDuck

Subletr **Big Red Hacks Fall 2016**

- App that helped people find subletting offers near their location
- Written in Angular, Node.js and MongoDB
- half of my team had never coded before
- Wrote most of the angular functions. Wrote half of the node server, deployed on Amazon EC2 as well as assisted new team members

Delta Skymile Services **Hack Georgia Tech Fall 2016**

- Allowed Delta customers to spend their skymiles on Lyft rides
- Used Delta API, Lyft API, Google Geocoding api, SQLite and flask
- Did most of the backend except for the database. Handled all the API's

ParentLock **MHacks Fall 2016**

- App that notified parents whenever their child's car drove out of a set perimeter
- Used GM API, GM SDK, angular, node, express, Swift 2 and MongoDB
- Did the angular front end for the car side web app. Configured it for a car dashboard

Electromagnetic Hallbach Array **International Aerial Robotics**

- Designed an proprietary electromagnet to be mounted on a quadcopter to trigger ground robots
- Electromagnet channeled most of the magnetic field away from the quadcopter so as not to damage onboard sensors
- used Finite Element Magnetics software to create simulation
- Was able to calculate estimate power requirements and number of coils needed.