

## EDUCATION

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### University of Michigan

April 2019

B.S. in Computer Science & Engineering

Overall GPA: 4.0

## EXPERIENCE

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### Solidware, Inc

July 2015 - August 2015

*Software Engineering Intern*

*Seoul, South Korea*

- Programmed SolidStudio, a SaaS machine learning solution for financial institutions
- Ported MATLAB machine learning and statistics code to C++ for faster performance, working with an in-house MapReduce model
- Responsibilities included making sure the software runs under strict memory restrictions (streaming algorithms), as the software dealt with multi-terabytes worth of data
- Developed software were deployed to major insurance and loan firms

### Popcorn5, Inc

June 2014 - July 2014

*Frontend Programmer*

*Seoul, South Korea*

- Programmed a SaaS building management solution using AngularJS
- Implemented unit-testing and test-driven methodologies to be used in future projects

## ACTIVITIES

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### Michigan Autonomous Aerial Vehicles

September 2015 - Current

- Program computer vision modules for the drone to detect and locate targets

### Michigan Student Artificial Intelligence Lab

September 2015 - Current

- Learn various machine learning algorithms and apply them to Kaggle datasets

### Michigan Hackers

September 2015 - Current

- Promote hackathons at University of Michigan, plan logistic details for attending hackathons

## PROJECTS

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**A2Yum** Genetic algorithm solver that searches a route to visit all restaurants in Ann Arbor

**CalOpt** Dynamic programming algorithm scheduler that finds maximum calorie-per-dollar menu

**Pigeon** Parrot drone that follows user using OpenCV's histogram of gradient objects image classifier

**Lemoneda** Yik-Yak clone developed in Django and AngularJS

*Demos, source code and more projects are available on [ijlee.me](http://ijlee.me)*

## HACKATHONS

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**MHacks 6** Worked on BioAuth, biometric password manager. Awarded Best Security Hack.

**MHacks 2013** Worked on Leap Motion controller for 2D games. Awarded Top 10 Finalist Hack.

## TECHNICAL STRENGTHS

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**Strong fluency** C++, Javascript, Python, CSS

**Experience with** Java, CSS, Bash

**Libraries** Django, AngularJS, Handlebars, OpenCV, Boost, Nginx

**Tools** Git, Vim, Emacs