

OBJECTIVE

Programmer with a passion for learning new technologies.

EDUCATION

University of Michigan

April 2019

B.S.E in Computer Science & Engineering, Overall GPA: 3.957/4.0

Relevant Coursework: ENGR 151: Accelerated Introduction to Computers and Programming, EECS 203: Discrete Mathematics, EECS 280: Programming and Introductory Data Structures

EXPERIENCE

OnboardIQ (YC 2015) - <https://onboardiq.com>

May 2016 - August 2016

Software Engineering Intern

San Francisco, CA

- Programmed optimized cached-counter database models for fast information retrieval
- Programmed internal tools to assist operations as OnboardIQ scales
- Developed software was deployed to various early stage startups and a few mid-tier companies

Solidware, Inc. - <https://solidware.io>

July 2015 - August 2015

Software Engineering Intern

Seoul, South Korea

- Programmed SolidStudio, a SaaS machine learning & visualization solution for financial institutions
- Ported MATLAB code to C++ code following in-house MapReduce processing model for faster performance
- Optimized code to run under strict streaming-memory restrictions, even with multi-terabyte sized data
- Developed software was deployed to a major multinational insurance firm and top loan firms in Korea

ACTIVITIES

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 scheduler that finds maximum calorie-per-dollar menu |
| Pigeon | Parrot drone that follows user using an image classifier |
| Lemoneda | Yik-Yak clone developed in Django and AngularJS |

Demos, source code and more projects are available on online portfolio <https://jae.works>

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, Bash, MATLAB, Ruby |
| Libraries | Django, Rails, AngularJS, Handlebars, OpenCV, Boost, Nginx, Gulp, Jenkins |
| Tools | Git, Vim, Linux, Inkscape, LaTeX |
| Miscellaneous | Able to quickly prototype graphics resources, Fluent in Korean |