
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

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

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

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