# Owen C. Derby

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owenderby.com  |  github.com/oderby

## EXPERIENCE

### Flux Factory, Inc.

*Technical Product Manager*                                           May 2015 — Aug 2016

- Led company through a 4 month pivot to a new SAAS data-interchange product for computational designers.
- Established KPIs for the product, a roadmap to achieve them and oversaw its implementation by development teams.
- Analyzed user behavior to prioritize new features and support sales and marketing in targeting customers.

*Software Engineer*                                                     Jul 2013 — May 2015

- Designed and built backend services in Go and associated SQL databases for user accounts, data and Stripe payments.
- Created pipelines for collecting, cleaning, and combining GIS and zoning code data and Angular components for displaying the result in the Metro product.
- Implemented logical subsystems for a 'building configurator', while helping re-scope the project to deliver a smaller set of features on time.

### MIT CSAIL, ALFA Group

*Research Assistant*                                                    Jun 2012 — May 2013

- Developed FlexGP – a distributed, heterogeneous genetic programming system for machine learning.
- Created a framework for running and analyzing FlexGP on an OpenStack cloud computing implementation.
- Published 2 papers and presented research at the preeminent conference in the fields of genetic and evolutionary computation.

*Undergraduate Research Assistant*                                     Feb 2011 — May 2011

- Designed and implemented a simple, light-weight genetic programming library in Java.

### Jaybridge Robotics, Autonomous Agriculture Group

*Software Engineering Intern*                                          May 2011 — Aug 2011

- Contributed to ongoing development of software control package for an autonomous farm tractor.
- Expanded regression tests to exercise new system features and to assess improvements in system performance.

### Mission Critical Technologies, Machine Learning and Controls Lab

*MCT Intern at NASA Ames Research Center*                              May 2010 — Aug 2010

- Expanded control software on lab test bed to incorporate acceleration measurements.
- Implemented a simple fault detection and isolation algorithm to demonstrate system capabilities.

## EDUCATION

### Massachusetts Institute of Technology

*Masters of Engineering - Computer Science, GPA: 5.0*                           Jun 2013
*Bachelors of Science - Computer Science and Engineering, GPA: 4.7*             Jun 2012
**Relevant Coursework:** Machine Learning, Distributed Systems, Computer Systems Security, Performance Engineering of Software Systems, Design and Analysis of Algorithms

## SKILLS

**Programming Languages:** Python, JavaScript, Go, HTML/CSS, Java, C/C++

**Software & Tools:** git, svn, Jira, gerrit, Mixpanel/GA, QGIS

**Deployment & DBs:** GCS, AWS, Docker, MySQL, MongoDB

## INTERESTS

- Board Games
- Ping Pong
- Cooking
- Exploring new cities
- Robotics
- Soccer