

## QUALIFICATIONS

- Fresh master graduate from Penn State University well prepared to fit in any challenging programming position in the software area.
- I taught myself Django and Ruby on Rails, developed several web apps in practice, which demonstrates me a motivated quick learner. More importantly, I am fulfilled during web developing, communicating with teammates and customers, and debugging – I really enjoy solving problems and working as a team.

## EXPERIENCE

### Software Developer Intern

HAIKE NETWORKS, INC. San Jose, CA (<http://www.haike100.com>) 07/2014 – present

- Developed the back-end of an O2O (Online To Offline) educational service platform within a team of four.
- Communicated with customers to understand their need, added new features and did related testing work.
- *Skills:* Python, Django, MySQL, GitHub

Self-Motivated Ruby on Rails Project (<http://www.shawn-duan.com>) 04/2014

- Built a Pinterest style web app with Rails in full stack, which supports both desktop and mobile browsers.
- This application stores user-uploaded images with Amazon Web Service, and runs on Heroku cloud application platform.
- Implemented 2048 game and integrated it into the Rails program.
- *Skills:* Ruby On Rails, Linux, AWS, HTML, CSS, JavaScript, Bootstrap, Git, Heroku

### Research Assistant

ROBUST MACHINE INTELLIGENCE AND CONTROL LAB, University Park, PA 2013 – 2014

- Proposed a maximum-entropy probability-learning model on disease risk and survival chance. Redesigned the algorithm to extend the idea from categorical classes to ordinal classes.
- Designed a doubly-linked list in C++ from scratch to store and manipulate “constraints”.
- Solved censoring issue by proposing a novel log-likelihood formula.
- *Skills:* C++, Machine Learning, Data Structures, Xcode

### Research Assistant

HUBEI PROVINCE KEY LABORATORY OF INTELLIGENT ROBOT 2010 – 2012

- Devised and implemented multi-robot cooperation attack strategies in Java; won the championship in Samsung Cup International Robotics Game.
- Implemented image processing methods on robotic vision module with C and OpenCV
- *Skills:* Java, Objected-Oriented Design, C, OpenCV, Computer Vision

## EDUCATION

**Master of Science** in Electrical Engineering, Pennsylvania State University University Park, PA

Thesis work was focused on machine learning algorithms in solving gene detection problem. May 2014

## ACTIVITIES AND HONORS

Member of Association for Computing Machinery (ACM) at Penn State 2012 – 2014  
CodePSU collegiate programming contest, 1st Place Winner, held by Penn State ACM Spring 2014  
PennApps 48-hour bi-annual hackathon participant Fall 2013  
Samsung Cup International Robotics Game Championship 2010