

QUALIFICATIONS

- Fresh master graduate from Penn State University with demonstrated abilities as a motivated quick learner, problem solver and strong team player.
- Hands on skills building web applications with Django and Ruby on Rails frameworks.
- Both academic and intern experiences leave me well prepared to fit in any challenging programming position in the software area.

EXPERIENCE

Software Developer Intern

HAIKE NETWORKS, INC. San Jose, CA 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 RoR 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.
- *Skills:* Ruby On Rails, Linux, AWS, HTML, CSS, 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