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WENXIAO (SHAWN) DUAN

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Personal website: www.shawn-duan.com/about

QUALIFICATIONS

- Fresh master graduate from Penn State University well prepared to fit in any challenging programming position in the software area.
- 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.
- Experienced the full product lifecycle from design to deployment.
- 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