

# Zhen Qiao

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## EDUCATION

**University of California, Irvine**

Dec. 2018 (Expected)

*Master of Computer Science*

Irvine, CA

**Harbin Institute of Technology**

Jun. 2017

*Bachelor of Science in Mechatronics Engineering (GPA: 3.70/4.00)*

Harbin, China

**Hanyang University**

Jun. 2016

*Exchange Study (GPA: 3.68/4.00)*

Seoul, South Korea

- Relevant courses: Human Computer Interface Design, Data Mining, Operating System, Software Engineering, Principles of Programming Languages

## PROFESSIONAL SKILLS

- Programming Languages: Java, C/C++, SQL, JavaScript, HTML, CSS, MATLAB
- Frameworks: Spring, SpringMVC, Mybatis, CXF Webservice, Solr, Activiti5 workflow, Bootstrap3
- OS/ Developing Tools: Linux, Tomcat, Nginx, MySQL, Redis, Maven, Git, Subversion, IntelliJ IDEA

## EXPERIENCE

**Beijing SGG Technology**      Software Engineer Intern      Beijing, China      Jun. 2017 ~ Sept. 2017

- Developed an online shopping website from scratch
  - Built the background seller management system and foreground customer trading system using Spring + SpringMVC + Mybatis (SSM) framework with Java
  - Implemented a web service for user authentication using Apache CXF + Spring framework with Java
  - Designed background seller management user interface using EasyUI with JavaScript and CSS
  - Used Redis as cache to improve efficiency
  - Implemented keyword search function using Apache Solr with Java
- Developed a crowd-funding website based on a frontend framework
  - Built background management system including user register system, role-based access control (RBAC) and user real name authentication using SSM framework with Java
  - Implemented user authentication workflow function using Activiti5 with Java
  - Designed user interface using Bootstrap3 framework with JavaScript and CSS

**Hangzhou AIMS**      Algorithm Engineer Intern      Hangzhou, China      Dec. 2016 ~ May 2017

- Developed the Prognostics and Health Management (PHM) toolbox
  - Aiming to judge whether a bearing runs in a health condition by analyzing industrial big data
  - Designed user interface with MATLAB GUI
  - Implemented feature selection from multiple time domain features using Principal Component Analysis (PCA) with MATLAB
  - Implemented the classification of health condition and unhealthy condition using Support Vector Machine (SVM), Self-organizing Map (SOM) and Gaussian Mixture Model (GMM) with MATLAB
  - Drew a bearing's health degree curve using Logistic Regression (LR) with MATLAB

**Beijing U-BOT**      Hardware Engineer Intern      Harbin/Beijing, China      Sept. 2016 ~ Dec. 2016

- Developed a control system of underwater robots
  - Researched control algorithm and simulated motion control on Arduino with C
  - Developed control software demo with VB

## PROJECTS

- Online survey system      Nov.2015 ~ Dec.2015
  - Built survey publishing system and user authority control system using SSM framework
  - Implemented questionnaire statistic and data visualization using ECharts3, a JavaScript/CSS framework
- Online bookstore      Oct.2015 ~ Nov.2015
  - Designed user interface using JavaScript, CSS and HTML
  - Implemented user register function, inventory management and trading system using java servlet and MySQL.