

# Zhen Qiao

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## EDUCATION

- **Master of Computer Science** Sept. 2017 ~ Dec. 2018 (Expected)  
University of California, Irvine, CA
- **Bachelor of Science in Mechanical Engineering** Aug. 2013 ~ June 2017  
Harbin Institute of Technology, China  
GPA: 3.7/4.0

## EXPERIENCE

- Company name: Advanced Intelligence Maintenance System (AIMS)  
Location: Hangzhou  
Title: R&D intern  
Time: Sept. 2016 – May 2017  
Project: Developed a Prognostics and Health Management (PHM) toolbox with Matlab

## PROJECTS

- Developed a PHM toolbox with Matlab
  - Aiming to judge whether a bearing runs in a health condition by Industrial Big Data.
  - Implementing user interface with Matlab GUI
  - Implementing feature selection from multiple time domain features using Principal Component Analysis (PCA) with Matlab
  - Implementing the classification of health condition and unhealthy condition using Support Vector Machine (SVM), Self-organizing Map (SOM) and Gaussian Mixture Model (GMM) with Matlab
  - Implementing the drawing of a bearing's health degree curve using Logistic Regression (LR) with Matlab
- Developed an online shopping website
  - Implementing the background seller management system and foreground customer trading system using Spring + SpringMVC + Mybatis (SSM) framework with Java
  - Implementing a web service for user authentication using Apache CXF + Spring framework with Java
  - Implementing background seller management user interface using EasyUI with JavaScript and CSS
  - Implementing cache function using Redis
  - Implementing keyword search function using Apache Solr with Java
- Developed a crowd funding website
  - Implementing background management system including user register system, role-based access control (RBAC), business review using and user authentication review using SSM framework with Java
  - Implementing user authentication workflow function using Activiti5 with Java
  - Implementing user interface using Bootstrap3 framework with JavaScript and CSS
- Developed an online survey website using SSM framework
- Developed a simple online bookstore using basic Java Web techniques.

## SKILLS

- Java, MySQL, JavaScript, CSS, HTML, Matlab, C
- Spring, Spring MVC, Mybatis, CXF, Solr, Activiti5 workflow, Redis, EhCache, Bootstrap3, EasyUI
- Linux, Tomcat, Nginx, Maven, Git, Subversion, IntelliJ IDEA