

Han Shui (Shirley)

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA Expected: Dec 2016
Course: Mathematical Modeling, Data structure and Algorithm, Android Development Intro, etc.
Tsinghua University, Beijing, China Jun 2014
Bachelor of Chemical Engineering

SKILLS

Programming Languages: Java, JavaScript, Python, C++, MATLAB, SQL
Other Skill: Database, CSS3, HTML, Photoshop, SSH, JSP, J2EE, Swing, Android, Linux

PROJECT

Carnegie Mellon University, Pittsburgh, PA
Distributed Map/ Reduce Framework Nov 2015 – Dec 2015

- Designed a map/ reduce framework consisting of a client, a master server and worker server.
- Implemented the framework as a distributed system using socket to communicate data and concurrent programming.
- Achieved robustness by allowing redundant data access by worker server in a faux distributed file system.

Social Network Analyze Framework Sep 2015 – Oct 2015

- Build a social-media analysis framework for Twitter and other social networks using MVC.
- Achieved data cache and data export for plugins by read and write data in xml files.
- Utilized Twitter, Github and Jumblr API and graphics library to construct three real-time sample analysis plugins and client GUI.

APTECH Beida Jade Bird Group Co, Beijing

Employer Management Web Application Jan 2014 – May 2015

- Implemented a dynamic web application using SSH(Structs2, Spring3 and Hibernate) framework.
- Provided different user service based on different user administrative level by using composite design pattern and login authorization from server.

Supermarket Inventory Management System Aug 2014 – Dec 2014

- Developed lightweight inventory management system using Socket, Oracle Database and Swing.
- Designed a user-friendly and plain functional client GUI with Swing and AWT.
- Encrypted communication and data solidus into database using hashing encryption.

INTERN

Jingmen GEM Co., LTD, Hubei, China Jun 2012 – Aug 2012

- Analyzed and optimized the industry chain of Jingmen GEM industry park.
- Proposed three feasible industry transformation direction by cross-examing industrial data of potential products and resource life-cycle analysis.
- Analysis included by Center for Industrial Ecology of Tsinghua University in the report of 'Multi-industrial chain research based on recycling resources life-cycle analysis and IoT monitory'.

ACTIVITY

TA for Java Course(08672) and Data Structure Course(08722) Aug 2016- Present

- Grading and office hour

CHEMSA Communication Chair of CMU Dec 2015 - Present

- Responsible for HTML formatting email push and document management.