

EDUCATION

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University of Southern California

Los Angeles, CA

Master of Science in Computer Science

Aug 2018 – May 2020 Shanghai, China

Shanghai Jiao Tong University

University of Michigan – Shanghai Jiao Tong University Joint Institute (UM-SJTU JI)

Bachelor of Science in Electrical and Computer Engineering

Sept 2014 – Aug 2018

Selected Courses: Advanced Operating Systems; Analysis of Algorithms; Distributed Systems; Computer Networks; Programming Language Concepts; The Principles of Database System; Intro to Computer Organization; Structuring Machine Learning Projects.

PROFESSIONAL EXPERIENCE

Intel Asia-Pacific Research and Development Ltd.

Shanghai, China

Software Engineering Intern in Analytic Storage Team

May 2018 – Aug 2018

- Realized two HAS remote admin command line tool commands and improved HAS integration tests and documents;
- Improved RESTful API for Hadoop Authentication Service admin access;
- Implemented Hadoop Smart Storage Manage integration test scripts.

NVIDIA Semiconductor Technology (Shanghai) Co., Ltd.

Shanghai, China

Infrastructure Software Internship

Aug 2017 – Apr 2018

- Designed and developed a Perl Module to post more than 140,000 GPU simulation data per day to ElasticSearch;
- Visualized posted data using Kibana and analyzed the trend of error data to support the debugging process;
- Devised and implemented a Python package for Elastic Search data retrieve and data manipulation;
- Realized an auto-detecting and reporting commands error function module of GPU simulation software;
- Applied doc2vec and WMD algorithms to perform the software Bug Triage tasks to improve team debugging efficiency.

SELECTED PROJECTS

StoneOsho To Do List iOS Application

Sept 2018 – Present

• Designed the backend architecture for user data management and provided database support for server side service.

International Programs Application and Management System

Apr 2018 – Aug 2018

- Developed the online system for UM-SJTU JI based on Laravel with around 1000 users;
- Implemented OAuth login, application submit and review, admin user management functions;
- Designed the database patterns including many-to-many, one-to-many associations;
- Realized the user interface of user/admin dashboard.

Medicinatio.xyz May 2018 – Jun 2018

- Developed an online Chinese question-and-answer social network website using WeCenter Framework individually;
- Improved WeCenter Framework based on Zend Framework to meet the project requirements and deployed on server.

TouchMore iOS and macOS Applications

Apr 2017 – May 2017

• Designed an iOS and macOS application to provide Numeric and shortcuts keypad with MultipeerConnectivity Framework.

SELECTED COURSE PROJECTS

JOS Kernel Development

Aug 2018 – Present

Realized the memory initializing, exception and interrupt trapping on x86 machine an Exokernel named JOS in C individually.

Distributed Transaction Settlement System

Jun 2018 – Jul 2018

- Achieved a Distributed Transaction Settlement System based on Hadoop and Spark Streaming in a group of three;
- Implemented the backend storage in MongoDB and dealt incoming concurrent transactions with Kafka.

Java/C-ish Interpreter in Racket

Mar 2017 – May 2017

• Developed an interpreter to interpret a language supporting function, class, inheritance and polymorphism features in a group.

Network Application Layer Protocol Implementation

Apr 2017

• Designed an application layer protocol for server and clients to communicate and implemented with socket programming in C.

SKILLS

Java, Python, C++, C, Perl, PHP, Swift, Racket, Haskell, Bash, SQL, HTML/CSS, Go

Hadoop, Apache Kafka, Elastic Search, MongoDB, Spark Streaming, Zookeeper, Apache Kerby, Bootstrap, Laravel, MATLAB.

CAMPUS ACTIVITIES

Intelligent Internet of Things Research Center

Shanghai, China

Undergraduate Research Assistant

Jun 2017 – Apr 2018

• Doubled the concurrent database query speed for Acemap, an academic database;

• Set up and operated the MySQL replications of the academic search database.

UM-SJTU JI Teaching Assistant

Shanghai, China

Sept 2015 – Aug 2017

• Teaching Assistant of Introduction to Logic Design, Honor Calculus IV, Calculus IV, Honor Calculus I and Tech Comm.