

Peiyuan Qi

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EDUCATION

University of Southern California

Master of Science in Computer Science

Los Angeles, CA

Aug 2018 – May 2020

Shanghai Jiao Tong University

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

Shanghai, China

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; Data Structures and Algorithms.

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;
- 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, and visualized posted data using Kibana;
- 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

JOS Kernel Development

Aug 2018 – Present

- Realized kernel functions of multitasking, file system, shell, networking for an Exokernel named JOS.

Distributed Transaction Settlement System

Jun 2018 – Jul 2018

- Achieved a Distributed Transaction Settlement System based on Kafka, Spark Streaming, MongoDB and Zookeeper in a group.

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;
- Completed Full-Stack development of users and applications management features.

Medicatio

May 2018 – Jun 2018

- Developed an online Chinese question-and-answer social network website with medical theme using WeCenter Framework.

TouchMore iOS and macOS Applications

Apr 2017 – May 2017

- Designed and implemented an iOS and macOS application to provide Numeric and shortcuts keypad.

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.

Pipeline CPU in Verilog

Nov 2016 – Dec 2016

- Implemented a pipeline CPU in Verilog with data and control hazard solutions.

SKILLS

Java, Python, C++, C, Perl, PHP, Swift, Haskell, Bash, SQL, HTML/CSS, Go,
Hadoop, Spark Streaming, Zookeeper, Apache Kerby, Bootstrap, Laravel, Elastic Search, MATLAB.

AWARDS

2017 Interdisciplinary Contest in Modeling Honorable Mention | 2015 Mathematical Contest in Modeling Honorable Mention.

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 and set up MySQL replications.

UM-SJTU JI

Shanghai, China

Teaching Assistant

Sept 2015 – Aug 2017

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

International Program Office Student Assistance

Mar 2015 – Dec 2016

- Led a 10 assistants team and organized more than 10 times field trips.

LANGUAGES

Chinese: Native | English: Proficient | French: Intermediate