

PEIYUAN QI

peiyuanqi@gmail.com • peiyuanqi.me • (+1) 213-255-6802

EDUCATION

University of Southern California, Los Angeles, California, USA.

Master of Science in Computer Science,

Aug 2018 – May 2020

Shanghai Jiao Tong University, Shanghai, China.

GPA: 3.6/4.0

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

Bachelor of Science in Electrical and Computer Engineering,

Sep 2014 – Aug 2018

Case Western Reserve University, Cleveland, Ohio, USA.

GPA: 4.0/4.0

Exchange Program.

Jan 2017 – May 2017

WORK

EXPERIENCE

Intel Asia-Pacific Research & Development Ltd., Shanghai, China.

- Software Engineering Intern in Analytic Storage Team May 2018 – Aug 2018
 - Implemented two HAS remote admin command line tool commands;
 - Improved HAS-Hadoop integration documents and tests;
 - 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;
 - Designed and implemented a Python package for Elastic Search data retrieve and data manipulation;
 - Implemented 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

Distributed Transaction Settlement System

Jun 2018 – Jul 2018

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

International Programs Application & Management System

Apr 2018 – Aug 2018

- Developed the online system for UM-SJTU JI based on Laravel with around 1000 users.
- Implemented Full-Stack development of users & applications management features.

TouchMore iOS and macOS Applications

Apr 2017 – May 2017

- Developed an iOS and macOS application to provide Numeric and shortcuts keypad;

Java/C-ish Interpreter in Racket

Mar 2017 – May 2017

- Designed and implemented an interpreter to interpret a language supporting function, class, inheritance and polymorphism features.

Network Application Layer Protocol Implementation

Apr 2017

- Designed an application layer protocol for server and clients to communicate;
- Implemented the new protocol with socket programming.

Pipeline CPU in Verilog

Nov 2016 – Dec 2016

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

Linux Shell in C

Sep 2016

- Developed a linux shell supporting commands, pipeline and redirection features.

SKILLS

Java, Python, C++, Perl, C, PHP, Swift, Haskell, Bash, SQL, Hadoop, Spark Streaming, Zookeeper, Apache Kerby, Bootstrap, Laravel, Elastic Search, MATLAB, \LaTeX .

ACADEMIC AWARDS

- 2017 UM-SJTU JI Winter Design Expo Gold Award. Dec 2017
- 2017 Interdisciplinary Contest in Modeling Honorable Mention. Feb 2017
- 2015 Mathematical Contest in Modeling Honorable Mention. Feb 2015

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.

Sep 2015 – Aug 2017

- Teaching Assistant of Introduction to Logic Design, Honor Calculus IV, Calculus IV, Honor Calculus I and Technical Communication.

UM-SJTU JI Honor Council, Shanghai, China.

- Member Sep 2016 – Aug 2017
 - Investigated violation cases of Honor Code and Participated in hearing.

UM-SJTU JI International Program Office, Shanghai, China.

- Student Assistant Mar 2015 – Dec 2016
 - Led a 10 assistants team and organized more than 10 times field trips.

LANGUAGES

Chinese: Native, English: Proficient, French: Intermediate.