PEIYUAN QI

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EDUCATION	**University of Southern California**, Los Angeles, California, USA.	
	Bachelor 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 Analytics 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.

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

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, Swift, Haskell, Bash, SQL, Hadoop, Spark Streaming, Zookeeper, Apache Kerby, Bootstrap, Laravel, Elastic Search, MATLAB, LaTeX.

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.