Qi Chen

Address: 325 W. Adams Blvd 4105, Los Angeles CA 90007 Email: chen147@usc.edu
Phone: (213) 479-3339

OBJECTIVE Seeking Software Engineering Internship for Summer 2017

EDUCATION

University of Southern California Aug.2016 - May.2018
- M.S. in Computer Science GPA: 4.0/4.0

Nanjing University of Posts and Telecommunications Sep.2012 - June.2016
- B.E. in Electrical and Computer Engineering GPA:3.8/4.0

SKILLS

Programming Languages: Java, Python, C++, Matlab
Web Technologies: HTML/CSS, Javascript, J2EE, PHP, Apache, AJAX, JSON
Other Technologies: SQL, Spark, Hadoop, Linux, Android SDK

RESEARCH EXPERIENCE

Energy Efficient Resource Allocation in Data Centers May.2014 - Mar.2015

Research Assistant, Supervisor: Prof.Jianxin Chen

- Proposed a **probabilistic adaptive** overload detection based on central limited theorem to trade off power cost and Service Level Agreement (SLA) cost
- Transformed dynamic VM consolidation into an **optimization problem**
- Evaluated the scheme by **CloudSim** and the results reduced about 77.5%-82.4% migrations and saved up to 39.3%-42.2% power consumption compared with First Fit Decreasing
- **Publication:** **Qi Chen**, Jianxin Chen, et al. "Utilization-based VM consolidation scheme for power efficiency in cloud data centers," in *Communication Workshop (ICC), 2015 IEEE International Conference on*, pp.1928-1933, 8-12 June 2015APA (EI)
- **Techniques Used:** Java, CloudSim, Heuristic Function, Optimization Search

SELECTED PROJECTS

Congress Information Search Web and IOS APP Sept.2016 - Dec.2016
- Designed a web-based information system to search congress information based on **HTML5/CSS**
- Developed that application to **IOS** platform
- **Techniques Used:** HTML5/CSS, AJAX, JSON, Bootstrap, jQuery, AWS and IOS APP

Rehabilitation System Based on Wearable Computing Aug.2015 - Sep.2015
- Designed a three-dimensional wearable **human motion capture** module with **Kinect SDK**
- Applied **Extended Kalman Filter** to improve the accuracy and stability of motion tracking
- **Techniques Used:** Kinect SDK, C++, kalman filter

Online Social Network APP on Android Platform Mar.2014 - July.2014
- Implemented **self-designed** User database tables based on **MySQL**
- Developed several online basic Social Network's functions via **J2EE**, including video chatting, social updates and commenting, etc
- Developed **intelligent recommender system** by users' affection, employing several **machine learning** algorithms
- **Techniques Used:** Java, MySQL, Android SDK, J2EE, JSON, Tomcat