He Qin

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EDUCATION

Shanghai Jiao Tong University (SJTU)   09/2012 – 06/2017(expected)
  ➢ **Degrees:** Bachelor of Science in Physics, Computer Science
  ➢ **Overall GPA:** 3.80/4.3   **Physics GPA**: 3.84/4.3   **Computer Science GPA:** 3.63/4.3

Duke University (Study Abroad**)**   08/2014 – 03/2015
  ➢ **Fields:** Physics and Computer Science
  ➢ **GPA:**   3.8/4.0

UC Berkeley Summer Section   07/2014 – 08/2014
  ➢ **GPA**:   3.5/4.0

RESEARCH EXPERIENCE

Attributed-based Deep Learning for Image Retrieval   11/2015 – 06/2016
Supervisor: Professor Ya Zhang

  ➢ Built and trained a Convolutional Neural Network (CNN) model that retrieves similar clothes based on the user's input image;
  ➢ Participated in learning network design. Assisted PhD students with running the training experiment. Wrote crawler to increase the training dataset;
  ➢ Learned basics of CNN in Computer Vision. Used Caffe framework to program learning network and train models.

Nonlocal Symmetries of Nonlinear Equations   04/2013 **–** 10/2013
Supervisor: Professor XiaoYan Tang

  ➢ Learned the Lie Group symmetry method and applied it to solve the Coupled Burgers Equation;
  ➢ Used Maple to solve the partial differential equation for new forms of the solution group.

PROFESSIONAL EXPERIENCE

SAP China Labs, Shanghai Site   06/2016 – 11/2016

Software Development Intern

  ➢ Participant and main organizer of the AI Assistant Over ERP innovation project;
  ➢ Helped design the architecture of the system. Built the chart-rendering portion and helped integrate the NLP engine with SAP Anywhere ERP system;
  ➢ Organized and prepared the "Come and Code" Programing Share Lecture. Presented Motion Graphics and Processing Programming;
  ➢ Prototyped two POCs of the Company Outing Management System and BuyItTogether app using techniques like Django Restful, Angularjs, and Material Design.

Glow Inc.   01/2016 – 03/2016
Android Development Intern
  ➢ Implemented customized promotion card UI widgets for Baby app under supervision. Added

loggings function for the app;
- ➢ Finished Google Android training and Google Design Guideline during internship.

Ericsson China, BoLTE   03/2015 – 12/2015

Software Development Intern
- ➢ Completed a prototype for a Network Slicing concept based on Node.js and maintaining WebSocket communication functions with supervision;
- ➢ Completed WPST Log Visualization System, which is based on a Django framework that integrates with MySQL DB under supervision, in addition to support editing and inquiring.

PROJECT EXPERIENCE

TrackLabel, Android App   04/2016 – 05/2016

Final Project for Computer Network course
- ➢ Wrote a complete Android App. Implemented Bluetooth communication function that scanned the paired devices and found a missing nearby smart phone by ringing through Bluetooth control;
- ➢ Integrated fully-functioning AMap API with GPS location. The app can record last Bluetooth detected locations for paired devices, which helps users find missing devices. Followed best practices in Android Marshmallow with standard Google Material Design UI.

GE AWS Cloud Control, Web UI Prototype   01/2016 – 02/2016

Project for TopCoder UI Prototype Challenge
- ➢ Applied Grunt-built yeoman Angular.js framework. Created customized UI widgets and responsive CSS animation;
- ➢ Implemented two-way binding of Angular.js for rendering policy instead of traditional JQuery way, which effectively improved the performance.

PUBLICATIONS

He, Q., Ming, L., & Ying, C. (Expected 2017). *Learning Python* (5th ed., Chinese Version). Shanghai: China Machine Press.

HONORS AND AWARDS

Top Three, SAP China Labs InnoWeek, AI Assistant Over ERP   10/2016
Second Prize, TopCoder UI Prototype Challenge, GE AWS Cloud Control 02/2016

SKILLS

Web Frontend(HTML, CSS, JS)	Java(Android)	C++
Python(Django)	Matlab	Linux

Core Courses (Computer Science Major)

Computer Network	Algorithm	Software Engineering
Database System(taking)	Operating System	Compiler Principle
Linear Algebra	Computer Architecture(taking)	Calculus I, II
Data Structure	Discrete Mathematics	Statistics