Chengyu SHEN

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EDUCATION

M.Sc. in Computer Science, University of Southern California (USC)	(3.9/4.0)	2017/01 - 2018/12
B.Sc. in Computer Science, University of Nottingham, China (UNNC)	(3.6/4.0)	2012/09 - 2016/06

TECHNICAL SKILLS

Programming: Java, C, C++, SWIFT, Python   Website: HTML5/CSS/Javascript/PHP
Database: MySQL   Data Analytics: R, MATLAB, Node.js
Other: Latex, Git, AWS

WORK EXPERIENCE

The Big Data and Visual Analytics (BDVA) Lab   06/2014 - 08/2014
Node.js & R
  • Built a web crawler to extract products' information from Chinese Amazon website.
  • Validated direct proportion between positive reviews' rate and sale quantity for most products.

PROJECTS

SHAPE Hackathon   07/2017 - 07/2017
Swift
  • Programmed a sound-driven iOS/Swift application with IBM Watson APIs, passing first round.

Facebook Search iOS App   04/2017 - 05/2017
Swift
  • Implemented a FaceBook account search app using FaceBook Graph API v2.9 and Swift 3.
  • Demonstrated FaceBook users' albums and posts in detail with data retrieved from FaceBook.
  • Integrated several Facebook features, like Share and Comment by importing Facebook Share SDK for Swift.

Responsive Web Design   04/2017 - 04/2017
PHP & AngularJS & HTML5
  • Constructing a responsive website for various screen sizes and devices by utilizing bootstrap.
  • Interpreted some existing FaceBook data in PHP file and deployed it in AWS.
  • Extended a dynamic website and presented different information on a single web page according to user behaviors using AngularJS.

Twitter Sentiment Analysis   10/2015 - 05/2016
Node.js & R & Machine Learning
  • Obtained 50,000 real-time tweets from Twitter by executing Twitter Streaming api in Node.js.
  • Translated 50,000 tweets in various languages by operating Microsoft translator.
  • Examined relationship between amount of tweets and earthquake quantity by visualizing those data in map.
  • Analyzed sentiments behind tweets and achieved higher than 86% accuracy by programming SVM, Naive Bayes and Random Forest algorithms in R.

Nome Info Website   09/2015 - 04/2016
PHP & MySQL & WeChat API
  • Developed and Maintained a website with MVC framework with a team, having more than 2,000 active users.
  • Enabled WeChat features, like Pay and Share by implementing WeChat APIs.
  • Rewarded with UNNC Technical Dream Scholarship in 2015.

Countdown game   09/2016 - 05/2015
Java
  • Collaborated with 4 team members to perform a Java countdown game.
  • Designed and accomplished entire game UI and process in Java.
  • Modified Brute Force Search algorithm and decreased 70% searching time by involving heuristic functions.