Wenqing Cao

2331 Portland ST, Los Angeles, CA 90007

Education

University of Southern California (Los Angeles, CA)

Master in Computer Science

January 2016 – December 2017

Nanjing University of Posts and Telecommunications (China)

Bachelor in Computer Science

September 2011 – June 2015

Experience

Software Engineer Intern at DromeBox Labs/ ModCon IP (Python)

Summer 2016

- Developed a program using OpenCV and PCL to construct 3D point cloud models of a room from images taken by Kinect.
- Participated in calibration and removed redundant points from 3D models.

Software Engineer Intern at Jiangsu HongXin System Integration Co.

Winter 2014

- Analyze the tourism information, set up a MySQL database and build tables
- Developed an Android -prototype with a team of five to display tourism information.

Projects

Machine Learning Projects (Python)

Aug 2017 – Nov 2017

- Used Numpy to Implemented CNN to classify MNIST data.
- Implemented logistic regression, SVM, GMM and PCA algorithms.

Applied Natural Language Processing Projects (Python)

Jan 2017 – May 2017

- Built a user information prediction model based on SVM to predict a user's gender, age, and education information given their search keywords.
- Wrote a part-of-speech tagging program based on HMM to tag words grammatical structure, such as verb, noun or preposition.
- Wrote language translation grading program based on BLEU.

Information Retrieval and Web Search Engine (Java)

Jan 2017 – May 2017

- Built an engine on Google Cloud Platform to invert index large scale data with Hadoop and MapReduce.
- Built a web search engine with spell correction and autocomplete functions based on Solr.

Web Development Experiences(JavaScript, Java, PHP)

Sep 2016 – Dec 2016

- Deployed a website on AWS Beanstalk to retrieve US Congress information.
- Wrote web application using JavaScript with AngularJS and Bootstrap to display congres information.
- Developed an Android client to render the same data as the web client.

Skills

Programming Languages: Java, C++, C, Python, JavaScript, PHP

Tools: AWS, Google Cloud Platform, Hadoop, Git, MySQL

Academic focus: Machine Learning, Natural Language Processing, Big Data **Libraries and Frameworks:** Scikit-learn, OpenCV, TensorFlow, Numpy, Angular JS