Runyu Zhang

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Education

Cornell University Aug. 2015 – Jan. 2017

Master of Engineering in Electrical and Computer Engineering (GPA: 3.72/4)
Courses: Object-oriented Programming and Data Structures, Web Design, Database Systems, Machine Learning, Operating Systems, iOS development.

University of Electronic Science and Technology of China Sep. 2011 – Jul. 2015

Bachelor of Science in Measurement and Control Technology and Instrumentation (GPA: 3.85/4)

Work Experiences

DeepMap, Inc. May 2017 – Present

Software Engineer, Front End Team

- Working with infrastructure team to build web pages which can keep track of data and workflow using React and Redux Javascript frameworks
- Implemented tables with sorting and search features in ES6 to represent data fetched from internal SQL databases, which are used by engineers and project managers
- Implementing web UI to manipulate data records in databases with more convenience and efficiency

Cornell University Jul. 2016 – Oct. 2016

Research Assistant, School of Electrical and Computer Engineering

- Implemented a web crawler in Python which searched for keywords and fetched LinkedIn profiles of Cornell alumni graduated from Electrical and Computer Engineering department
- Processed the data to remove duplication and verify data by comparison with ECE department data
- Tracked employment information of more than 90% of the graduates from the classes 2005 to 2015

Project Experiences

Database Systems Projects Mar. 2016 – May 2016

- Implemented BPlusTree structure that had comparable keys which were sorted in the nodes in Java
- Built a graph database in Neo4j to visually obtain the relationships among different types of data

Machine Learning Data Categorization Project Mar. 2014 – Jul. 2014

- Pre-processed the project data by PCA in Python to reduce the dimension by 90% while persevered 96% information
- Applied unsupervised learning methods including K-Means and Spectral Clustering algorithm to forecast whether the project could succeed

Industrial Application of Image Feature Detection Mar. 2014 – Jul. 2014

- Built an image database with 1000 sample images from an industry video
- Detected features in the samples as training data and inferred a function to capture the coal
- Calculated the accuracy of recognition and optimized, the final accuracy rate was about 93%

Programming Skills

- Programming Languages: Java, JavaScript (ES6), HTML/CSS, Python
- Technical Knowledge: algorithms, data structure, web development, Reactjs, AJAX, MySQL