Jianmo Ni

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Objective: Looking for software engineering and research internship for summer 2017

Education

University of California San Diego Ph.D. Computer Science — Expected 2021
Shanghai Jiao Tong University M.E. Electrical Engineering (gpa 3.9/4.0) — March 2016
Waseda University M.E. Information Production and Systems Engineering (gpa 3.9/4.0) — September 2014
Shanghai Jiao Tong University B.S. Electrical Engineering (gpa 3.7/4.0) — July 2013

Work Experience

Ping An Insurance Corp. — **Febrary 2016 - August 2016**
Big Data Platform Division, Data/Software Engineering Intern

- Worked on components of data management platform (Java Play Framework) to provide services between user and HDFS (implemented search function via Apache Lucene and designed database schema).
- Implemented a GBDT+Logistic Regression ensemble model (published by Facebook) for mobile ads. recommendation and achieved 25% CTR increase compared with correlation-based method.
- Developed a generalized linear regression based algorithm for recommending potential bank office site, conducted feature selection and achieved 60% model accuracy.
- Performed customer profiling (3 billion+ users) using both static and dynamic attributes (10 thousand+ dimensions) and generated higher level labels to enrich the dataset on big data platform (Hadoop Hive).
- Utilized Python Scrapy framework to crawl data from 20+ websites to enlarge input data set.
- Designed a geocoder tool to transform longitude and latitude information into address to supplement location-based data via Alibaba Maps API.

Research Experience

University of California San Diego — **September 2016 - present**
System Energy Efficiency Lab, Research Assistant

- Developing a context-aware engine by leveraging various kinds of context data collected from IoT systems
- Modularized components of the data analysis engine by decomposing input data so as to increase scalability and builded interface (Python) with local/remote database.
- Accomodating machine learning algorithms (eg. regression, clustering, anomaly detection) to analyze context data and working on context-aware activity recoginition and user preference prediction.

Waseda University — **March 2013 - June 2014**
Optimization Technologies Lab, Research Assistant

- Designed a mobility-based operation scheduler on benchmark data flow graph, proposed flow algorithm and heuristic search to exploit solution space under timing and resource constraints.

Related Courses

- Algorithm Design and Analysis, Probabilistic Reason & Learning, Computer Architecture, Data Structures
- Online: Machine Learning, Cloud Computing, Recommendation Systems

Computer Skills

- Programming Languages: Java, Python, C/C++, Hive, SQL, HTML, Bash
- Platforms and tools: Hadoop, Spark, MySQL, Pandas, scikit-learn, Matlab, CPLEX
- Developing Enviroments: Windows, Linux, Eclipse, LaTeX, Git

Awards

- UCSD Focht-powell Fellowship 2016-2019, one of the most prestigious awards at UCSD
- National Scholarship 2014-2015, awarded by Ministry of Education P.R.China
- Waseda Asia Special Scholarship 2012-2014, highest awards for foreign students
- IEEE 11th International Conference on ASIC Best Student Paper Award 2015