Jianmo Ni

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

Education

University of California San Diego **Expected 2021**
Ph.D. Computer Science

Shanghai Jiao Tong University **March 2016**
M.E. Electrical Engineering (GPA 3.9/4.0)

Waseda University **September 2014**
M.E. Information Production and Systems Engineering (GPA 3.9/4.0)

Shanghai Jiao Tong University **July 2013**
B.S. Electrical Engineering (GPA 3.6/4.0)

Research Experience

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

- Developing a context-aware engine by collecting and leveraging various kinds of context data collected from IoT systems (eg. smart cities, smart grid).
- Accomodating machine learning algorithms (eg. regression, clustering, anomaly detection) to analyze context data and working on context-aware activity recoginition and control optimization.

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

- Designed a mobility-interval-based operation scheduler to minimize power consumption under timing and resource constraints by leveraging multiple voltage technique.
- Combined heuristic search and flow algorithms to efficiently exploit design space, achieved an average 8.4% overhead compared with ILP.

Work Experience

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

- Worked on components of data management platform (Play MVC Framework) to provide middleware services between user and HDFS, like implementing data search function via Apache Lucene and designing 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.
- Designed a generalized linear regression based algorithm for recommending potential bank office site, achieved 65% model accuracy.
- Utilized Python Scrapy framework to crawl data from 20+ websites to enlarge input data set for the site recommendation system.
- Performed customer profiling (3 billion+ users) using both static and dynamic attributes (10 thousand+ dimensions) on big data platform (Hive).
- Designed a geocoder tool to transform longitude and latitude information into address to supplement location-based data via Alibaba Maps API.

Computer Skills

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

Awards

- UCSD Focht-powell Fellowship, 2016-2019
- National Scholarship P.R.China, 2014-2015
- Waseda Asia Special Scholarship, 2012-2014