Aaron (Shixiang) Zhou

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EDUCATION

Columbia University (CU), New York, NY   Sept. 2016 – Feb. 2017 (expected)
Master of Science, Industrial Engineering   GPA: 3.83
University of Michigan (UM), Ann Arbor, MI   Sept. 2014 – Apr. 2016
Bachelor of Science, Industrial and Operations Engineering   GPA: 3.86
Shanghai Jiao Tong University (SJTU), Shanghai, China   Sept. 2012 – Aug. 2016
Dual Degree Program: Bachelor of Science, Electrical and Computer Engineering   GPA: 3.63
Courses: Data Structure & Algorithm, Computer Network, Cloud Computing, Machine Learning, Dynamic Pricing

EXPERIENCE

International Business Machines Corporation (IBM), Shanghai, China   Jun. 2017 – Aug. 2017
Intern. B2B2C E-commerce Development (Client: SAIC Volkswagen)

- Helped design relational database schema based on client's business requirements
- Drafted and maintained product requirement documents (PRD), Axure prototype and JIRA boards in an Agile Software Development environment, suggested features based on data driven researches
- Launched SVW E-commerce website (alpha version) in two months

Jennison Associates LLC, New York, NY   Oct. 2016 – Feb. 2017
Applications Intern

- Responsible for maintaining data in Oracle database by performing data cleaning, transformation and ensuring integrity in a relational environment, conducted unit and functional testing
- Created and executed automated test plans, cases and scripts to uncover, identify and document .NET system's problems and their causes, guaranteed robust stability of the system
- Designed and created system status dashboards showing buggy services

University of Michigan Transportation Research Institute, Ann Arbor, MI   May 2015 – Aug. 2015
Research Assistant. Research in Consistency of Readability Equations

- Programmed Python web scraper automating readability data collection for technical documents
- Analyzed score inconsistency among different tools by using ANOVA and bootstrap aggregating
- Published a quantitative research paper as first author in *IEEE Transactions on Professional Communication*

PROJECT

Text Normalization Challenge (Kaggle NLP competition)   Oct. 2017 – Nov. 2017

- Applied XGBoost with context to label test data by using 10 GB training text (digit/ordinal/…)
- Created label-wise regex functions to convert labeled text into normalized form ("$2" to "two dollars")
- Gained 98.26% accuracy compared to the 92.6% benchmark

Twitter Sentiment Map in Node.js   Sept. 2017 – Oct. 2017

- Developed an AWS Elastic Beanstalk web application using Node.js in an auto-scaling environment
- Used Twitter Stream API, Google Map API and AWS Elasticsearch geospatial feature allowing users to search tweets with sentiment analysis in a web UI based on keywords or clicked location

Pocket Lab – Remote VR Monitoring (Capstone Design, Client: Siemens)   May 2016 – Aug. 2016

- Built a remote lab monitoring system using VR and IoT technology, offering immersive user experiences
- Developed Django cloud server processing data with Ubuntu, MySQL and RESTful web service, visualized real-time monitored data by presenting dashboard in website and tagged model in Android VR app
- Won Gold Award (top ranked) out of 30+ teams

SKILL

Programming Language: Python, R, SQL, Shell, C/C++, C#, HTML/CSS, JavaScript
Web Technology: AWS, REST, Hadoop, Spark, Django, Nodejs, Git, Vim
GitHub: https://github.com/TickTack-z