JINGYUAN LI

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OBJECTIVE

Actively seeking Entry-level fulltime positions as Software Development Engineer

EDUCATION

Rutgers University, Piscataway, NJ — Sept. 2016 – May 2018
M.S., in Computer Engineering, GPA 3.7/4.0

Xiamen University, China — Sept. 2012 – June 2016
B.S., in Electrical Engineering, GPA 3.4/4.0

Awards/Honors: Second Prize Academic Excellence Scholarship (Top 15%), Excellent Student Leader

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, JavaScript, Shell Script, HTML5/CSS3, R, Matlab
Database Systems: MySQL, Oracle SQL, MongoDB
Tools/Services/OS: Git, Tomcat, AWS, Linux/Unix, Windows

WORK EXPERIENCE

Research Assistant, Rutgers University, Piscataway, NJ — Sept. 2016 – Jan. 2018

- Participated in developing Java-based and Web-based data visual analytics tools – Visual Interactive Tool of Process Log Analysis (VIT-PLA), which is published in KDD 2017 (Top Conference on Data Mining).
- Implemented a novel time-warping-based pairwise process for trace similarity measure.
- Improved alignment-based algorithms to optimize data analytics, achieved 30% improvement.

Associate Software Engineer Intern, Eastcom Co., Ltd., Hangzhou, China — June 2015 – Sept. 2015

- Optimized auto production line system software code resulting in an increase of time efficiency by 5%.
- Collaborated with a team to design a novel algorithm to help detect scrap handler operation.

PROJECTS

Patient Cohorts Analysis (Python, Data Mining and Analytics) — May 2017 – Nov. 2017

- Developed patient attribute weights learning based on partial manually labeled data to improve patient clustering quality.
- Recognized twelve treatment patterns for data analysis using classification and clustering algorithms.
- Performed statistical analysis and significance tests to recognize patient cohorts.
- Tested k-means and k-medoids clustering algorithms and performed silhouette analysis to decide the optimal number of clusters.

Handwriting Recognition (Python, Deep Learning) — Sept. 2017 – Oct. 2017

- Implemented image classifier for handwriting recognition using TensorFlow framework.
- Trained deep learning with convolutional neural network with 50k with MNIST dataset images.
- Utilized max-pooling in neural network in order to extract handwriting features.
- Performed image augment in training and achieved 89.2% accuracy of image classification.

Travel Journal App (Android) — Nov. 2017 – Dec. 2017

- Led a four-person team to build an Android app for travelers to keep a journal with tags, photos and the location.
- Designed and implemented the User Interface which follows the Google Material Design principles.
- Built a database with Google Firebase and implemented queries to store and retrieve data for user interaction.

Stock Prediction (Web Development, AngularJS, LESS, Python Flask) — Feb. 2017 – May 2017

- Built a RESTful web app using MVC architecture and machine learning techniques.
- Developed Artificial Neural Networks and Bayesian Curve Fitting to predict stock prices, achieved 90% precision.
- Implemented database query to perform historical stock data collection and data cleaning.

PUBLICATIONS

Process Mining the Trauma Resuscitation — 2017 Published
*Sen Yang, **Jingyuan Li**, Xiaoyi Tang, Shuhong Chen, Ivan Marsic, and Randall S. Burd*
IEEE Intelligent Informatics Bulletin 2017

RELEVANT COURSES

- Data Structures and Algorithms
- Special Problem in Process Mining
- Parallel and Distributed Computing
- Software Engineering
- Web Application Design
- Programming Finance
- Mobile App Engineering
- Database System Implementation