Jingyuan Li

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400 Plymouth Place, #2408
Somerset, NJ 08873

EDUCATION

Rutgers University, Piscataway, NJ — Sept. 2016 – May 2018
M.S., in Computer Engineering, GPA 3.5/4.0

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

WORK EXPERIENCE

Research Assistant, Rutgers University, Multimedia Image Processing Lab — Sept. 2016 - present
- Developed both Java-based and Web-based data visual analytics tool – VITPLA system.
- Proposed a novel time-warping-based pairwise process for trace similarity measure.
- Improved alignment-based data mining algorithms to optimize data analytics, achieved 30% improvement.
- Tested clustering algorithms and proposed a novel algorithm to decide the number of clusters.

Associate Software Engineer Intern, Eastcom Co., Ltd., Hangzhou, China — June 2015 – Sept. 2015
- Maintained auto production line system software resulting an increase of 10% of efficiency.
- Collaborated with a team to design a novel algorithm to help detect auto scrap handler operation.

PROJECTS

Patient Cohorts Analysis (Python) — May 2017 – present
- Designed a greedy machine learning algorithm for patient similarity learning and improved 30% precision.
- Discovered twelve treatment patterns for data analysis using classification and clustering algorithms.
- Performed statistical analysis and significance tests to recognize patient cohorts.

Image Classifier (Python) — Sept. 2017 – Oct. 2017
- Trained deep learning with convolutional neural network in TensorFlow with 50k images in CIFAR dataset.
- Performed image augment and achieved 91.2% accuracy of image classification

Stock Prediction (Web Development, AngularJS, 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 varying stock prices.
- Implemented database query to perform historical stock data collection and data cleaning.
- Achieved over 90% precision in prediction based on 2-year historical data training.

Timeline.JS (GitHub Open Source Project, D3.js, Webpack) — May 2017 – Sept. 2017
- Built a JS library for data visualization to help analyze temporal event data.

PUBLICATIONS

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

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, JavaScript, PHP, HTML/CSS, R, Matlab, Shell Script
Database Systems: MySQL, Oracle SQL, MongoDB
Tools/Services: Git, Tomcat, AWS, LaTeX

RELEVANT COURSES

- Data Structures and Algorithms
- Special Problem in Process Mining
- Software Engineering
- Web Application Design
- Mobile App Engineering
- Distributed Computing