Jingyuan Li

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EDUCATION

Rutgers, the State University of New Jersey, *Piscataway, NJ* 09/2016 – 05/2018
M.S., in Electrical & Computer Engineering, GPA 3.5/4.0
Xiamen University, *China* 09/2012 – 06/2016
B.S., in Electrical & Electronics Engineering, GPA 3.4/4.0
Awards/Honors: Second Prize Academic Excellence Scholarship (Top 15%)
Excellent Student Leader

WORKING EXPERIENCE

Research Assistant, *Multimedia Image Processing Lab, Rutgers University* 12/2016 – present
- Data analytics and VIT-PLA system development

Associate Software Engineer Intern, *Eastcom Co., Ltd., Hangzhou, China* 06/2015 – 09/2015
- Auto production line system development

RESEARCH AND PROJECTS

Patient Cohorts Analysis (Python) 05/2017 – present
- Designed a greedy machine learning algorithm for patient similarity learning with ten hours' training time.
- Implemented pattern recognition methods to discover the treatment patterns.
- Performed significance tests to analyze treatment patterns.
- Performed statistical analysis for patient cohorts by using classification and clustering algorithms.

VIT-PLA: Recommender System for Medical Treatment Procedures (Java/Web) 12/2016 – 10/2017
- Proposed a novel time-warping-based pairwise process trace similarity measure.
- Improved sequential-pattern-based data mining algorithms to optimize data analytics result.
- Tested state-of-art clustering algorithms and proposed a novel algorithm for calculating process cluster prototype.
- Developed both Java-based and Web-based data visual analytics tool.

Stock Prediction (Web Development) 02/2017 – 05/2017
- Built a RESTful web app using MVC architecture and deep learning techniques.
- Developed Artificial Neural Networks for stock price prediction, and the precision reached 90%.
- Implemented database query to perform historical stock data collection and data cleaning.

Timeline.JS (GitHub Open Source Project) 05/2017 – present
- Built a JS library for data visualization to help analyze temporal event data using D3.js and Webpack.

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(most proficient), Python, C++, JavaScript, PHP, HTML/CSS, R, Matlab
Database Systems: MySQL, Oracle SQL, MongoDB
Tools/Services: Git, AWS, Shell Script, LaTeX

RELEVANT COURSES

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