Jingyuan Li

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EDUCATION

Rutgers, the State University of New Jersey, *Piscataway, NJ*
M.S., in Electrical & Computer Engineering 09/2016 – 05/2018

Xiamen University, *China*
B.S., in Electrical & Electronics Engineering 09/2012 – 06/2016
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
- 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

VIT-PLA: Visual Interactive Tool of Process Log Analysis (Java) 12/2016 – present
- Built a medical workflow analysis tool to help medical teams manage surgical activity analysis.
- Inferenced novel algorithms for data mining, visualized analysis results, improved data analysis performance by 30% and the speed by 100%.
- Collaborated with a medical team about the software development. Implemented new features and improved the program according to their demand.

Patient Cohorts Analysis with Machine Learning (Python) 05/2017 – present
- Developed machine learning techniques for patient cohorts' analysis.
- Analyzed data using clustering algorithms, implemented machine learning algorithms to predict correlation among datasets and improved precision by over 25%.

Stock Prediction (Web Development) 02/2017 – 05/2017
- Worked with a team and efficiently built a RESTful web app using MVC architecture, which provides data visualization and precise (precision reached 90%) stock price prediction with deep learning algorithms.
- Proposed efficient ways to execute the application, built application framework with Python Flask and AngularJS, designed and implemented front-end and implemented three-layer Artificial Neural Network to provide accurately stock price prediction.

Timeline.JS (GitHub Open Source Project) 05/2017 – present
- Built a JS library for data visualization to help analyze process log data using D3.js and Webpack.
- Improved user experience by modified over 7 details.

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), C++, JavaScript, Python, R
Database Systems: Oracle SQL Database, 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