Jingyuan Li

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SKILLS	**Programming Languages:** C/C++, Java, JavaScript, Python, MongoDB, SQL, MATLAB, R, Shell Script. **Tools:** Git, npm, Grunt, Adobe Photoshop, Adobe Audition

EDUCATION

Rutgers, the State University of New Jersey, New Brunswick, NJ   09/2016 - 05/2018

M.S.: School of Electrical and Computer Engineering   GPA: 3.5/4.0

- Relevant Courses: Special Problem in Process Mining, Software Engineering, Software Engineering of Web Application, Programming Finance, Data Structure and Algorithms, Paralleled and DistributedComputing, Mobile App Engineering

Xiamen University, China   09/2012 - 06/2016

B.S.: School of Physics, Mechanical & Electrical Engineering   GPA: 3.4/4.0

EXPERIENCE

Rutgers, the State University of New Jersey

Student Assistant, Multimedia Image Processing Lab   12/2016 - present

- VITPLA system(a medical workflow analysis system) development, deployment, visualization, troubleshooting. Data analysis including process log, trace alignment, clustering.

PROJECTS

VIT-PLA 2.0: Visual Interactive Tool of Process Log Analysis (Research) 12/2016 - present
- A medical workflow analysis tool to perform process visualization, clustering, statistical analysis and process recommendation.
- Created responsive web page with other programmers utilizing **jQuery, D3.js, Bootstrap, CSS3**. Modified front end codes to improve user experience and visual effect.Deployed the web application on **AWS** to improve scaling.

VIT-PLA 1.0: Visual Interactive Tool of Process Log Analysis (Research) 05/2017 - present
- A medical workflow analysis tool focusing on trace alignment and improvement.
- Implemented **trace alignment** improvement algorithms including Time Window Relaxation, Realignment, Block Shift and Process-Oriented Iterative Multiple alignment utilizing **Java**, Modified Java Swing UI.
- Improved alignment outcomes by 30% in trace length.

Timeline.JS (Research)   05/2017 - present
- **Building a JS library** to perform process log visualization. Designed the library with another programmer, utilizing **D3.js** and ES6 based **Webpack**.
- Improved over 7 details to get better user experience.

Stock Prediction [Web App] (Course Work)   02/2017 - 05/2017
- Retrieved historical and real-time stock data through Yahoo Finance API and stored into **MongoDB** database. Designed and implemented the whole UI utilizing Bootstrap, **AngularJS, Less, Grunt**.
- Implemented bayesian Curve Fitting algorithm to provide the users with short term stock predictions utilizing **Python Flask**, and the precision reached 90%.

PUBLICATIONS

Process Mining the Trauma Resuscitation   2017 Submitted

*Sen Yang, **Jingyuan Li**, Xiaoyi Tang, Shuhong Chen, Ivan Marsic, and Randall S. Burd*

Submitted to IEEE Intelligent Informatics Bulletin 2017