

JINGYUAN LI

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OBJECTIVE

Actively seeking entry-level full-time positions as Software Development Engineer

EDUCATION

Rutgers University, Piscataway, NJ Sept. 2016 – Oct. 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: Academic Excellence Scholarship (Top 15%), Excellent Student Leader

TECHNICAL SKILLS

Programming Languages: Java, C++, Python, JavaScript, Shell Script, HTML5/CSS3, R, Matlab

Database Systems: MySQL, Oracle SQL, MongoDB

Tools/Services/OS: IntelliJ, Netbeans, Eclipse, Git, Tomcat, AWS, Linux/Unix, Windows

EXPERIENCE

Research Assistant, Rutgers University, Piscataway, NJ Sept. 2016 – present

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

PROJECTS

Patient Cohorts Analysis (Python, Data Mining and Analytics) May 2017 – Feb. 2018

- Developed patient attribute weights learning algorithm based on partially labeled data to improve patient clustering quality.
- Utilized clustering algorithms (K-means and Hierarchical Clustering) to partition patients into clusters.
- Designed and implemented a workflow discovery algorithm to extract features of different treatment patterns.
- Performed statistical analysis and significance tests to mine the association between patient cohorts and treatment processes.

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(CNN) 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 92.2% accuracy of image classification.

Travel Reservation System (JSP, MySQL) Mar. 2018 – May 2018

- Led a four-person team to build a Web App with JSP for travelers to search, book flights and select seats.
- Designed and built a database with MySQL and implemented queries to store, retrieve and manipulate data.
- Designed the whole UI and optimized the database queries to reduce the searching time by 10%.

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(ANN) and Bayesian Curve Fitting to predict stock prices, achieved 90% precision.
- Implemented database query to perform historical stock data collection and data cleaning.

PUBLICATIONS

Discovering Interpretable Medical Workflow Models 2018 Published

Jingyuan Li, Sen Yang, Shuhong Chen, Fei Tao, Ivan Marsic, and Randall S. Burd

IEEE International Conference on Healthcare Informatics 2018

Process Mining the Trauma Resuscitation Patient Cohorts 2018 Published

Sen Yang, Fei Tao, Jingyuan Li, Dawei Wang, Shuhong Chen, Ivan Marsic

IEEE International Conference on Healthcare Informatics 2018

RELEVANT COURSES

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