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Jingyuan Li

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EDUCATION

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

WORK EXPERIENCE

Research Assistant, Rutgers University, Piscataway, NJ   Sept. 2016 - present
- Developing both Java-based and Web-based data visual analytics tool – VITPLA system.
- Proposed and implemented 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 algorithm to decide the number of clusters.

Associate Software Engineer Intern, Eastcom Co., Ltd., Hangzhou, China   June 2015 – Sept. 2015
- Optimized auto production line system software code resulting in an increase of time efficiency by 5%.
- Collaborated with a team to design a novel algorithm to help detect auto scrap handler operation.

PROJECTS

Footprints (Android)   Nov. 2017 – Dec. 2017
- Led a four-person team to build an Android app for travelers to keep a journal with tags, photos and the location.
- Designed and implemented the User Interface which follows the Google Material Design principles.
- Built a database with Google Firebase and implemented queries to store and retrieve data for user interaction.

Patient Cohorts Analysis (Python)   May 2017 – Nov. 2017
- Designed a greedy machine learning algorithm for patient similarity learning and improved 30% precision.
- Recognized 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 89.2% accuracy of image classification

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 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.

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, Shell Script, PHP, HTML5/CSS3, R, Matlab
Database Systems: MySQL, Oracle SQL, MongoDB
Tools/Services/OS: Git, Tomcat, AWS, Linux/Unix, Windows

RELEVANT COURSES

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