Jason Duan

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EDUCATION

STEVENS INSTITUTE OF TECHOLOGY
ME in Computer Science
Expected May 2019 | Hoboken, NJ
Cum. GPA: 3.89

QINGDAO UNIVERSITY
BS in Computer Science
May 2015 | QingDao, China

SKILLS

PROGRAMMING
C/C++ • Java • Python • Shell • JavaScript • Matlab • LaTeX

WEBSITE
HTML5 • CSS3 • Javascript • AJAX • jQuery • React.js

DATABASE
SQLite • MySQL • MongoDB • PostgreSQL

TOOLS
VIM • CMake • Git • Eclipse • VSCode • Android Studio • SAS • VMWare

OPERATING SYSTEM
Windows • Linux • MacOS

LANGUAGE
English • Mandarin

COURSEWORK

GRADUATE
Pattern Recognition & Classific
Concurrent Programming
TCP/IP Networking
Data Mining and Analysis
Mobile Systems and Applications

UNDERGRADUATE
Data Structures and Algorithms
Operating Systems
Web Programming(Python)
Database Management Systems
Unix Tools and Scripting
Software Architecture
Information Systems

EXPERIENCE

HANLON FINANCIAL SYSTEM LAB | SHIFT PROJECT, DEVELOPER
Apr 2018 – Now | Hoboken, NJ

- Used FIX protocol (via QuickFIX library) to communicate between frontend and backend modules.
- Resolved multithreading issues and wrong fields of FIX(Financial Information eXchange) message.
- implemented design pattern to decrease execution time by 30%.
- Splitted download part into multiple threads and reduced loading time by 50%.

GREENET INFORMATION CO. | Software Engineer
Aug 2015 – Feb 2017 | Beijing, China

- Worked on DPI(Deep Packet Inspection), interpretation, and troubleshooting with HTTP/HTTPS proxies.
- Performed distributed architecture to optimize the query procedure.
- Improved the accuracy of checking for malicious code and spam by 25%.

CISCO | Software Engineer intern
Feb 2015 – Jul 2015 | Beijing, China

- Worked on editing, designing and construction of web pages for hosting service using HTML5 and CSS3.
- Improved UI/UX interface for customer experience and fixed bugs.
- All code was reviewed, perfected, and pushed to production.

ACADEMIC PROJECTS

COMPUTER VISION: DETECT FACIAL EMOTION RECOGNITION
Sep 2017 – Dec 2017

- Classified seven emotions, including happy, surprise angry, sad, disgust, fear, and neutral.
- Designed main linear SVM learning model to classify images.
- Trained the related dataset(JAFFE) based on these emotions
- OpenCV, Facial Landmarks and Python for implementation.

MACHINE LEARNING: NY TAXI TRIP DURATION PREDICTION
Feb 2018 – Jun 2018

- Predicted the trip duration of taxi in NY city considering pickup and dropoff time, location, passenger number and other factors.
- Implemented various machine learning algorithms, such as Random Forest, XGBoost and Linear Regression.
- Visualized dataset after clusters of pickup and drop-off locations generated using K-Means clustering.

WEBSITE: BROWSER AUTOMATION FRAMEWORK
Jul 2014 – Feb 2015

- Provided APIs for writing programs that controls browser using Java and Selenium WebDriver.
- Developed and executed automation test scripts for API Testing using JUnit5.
- Enhanced the compatibility of project for different systems and browsers.