Huiwen (Tracy) Jiang

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SUMMARY

Master of science with strong programming, analytical and mathematical skills. 3+ years of hands on programming experience in wide range of projects, including full-stack web application development, Android app development and machine learning. Seeking full-time software engineer position

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EDUCATION

University of Southern California   Los Angeles, CA
- MS in Industrial & Systems Engineering (Analytics track); **GPA:3.9/4.0**   *Aug 2018 - May 2020 (Expected)*
- Course: Analysis of Algorithms, Machine Learning for Data Science, Foundations and Applications of Data Mining, Performance Analysis using Markov Models, Optimization methods for analytics, Fraud analytics

Beijing University of Aeronautics & Astronautic   Beijing, China
- BS in Computational Material Science; GPA:3.5/4.0; Dean's List.   *Aug 2014 - May 2018*

SKILLS

Languages: Java, Python (pySpark, Tensorflow), HTML, CSS, JavaScript, Node.js, Scala
Technologies: React.js, Express.js, AWS, Google Cloud, Github, JQuery, MapReduce, Bootstrap, Docker, Kubernete
Database: Relational databases (MySQL, Postgres) and NoSQL databases (MongoDB)

WORK EXPERIENCE

Specifio, Inc.   Los Angeles, CA
Software Engineer Intern   *Sep 2019 - Dec 2019*
- Responsible for the improvement of fully-automated patent drafting service
- Implemented pptx file generation based on customers' claims using **Java Aspose** and tested with **JUnit 5**
- Handled end-to-end development, including coding, testing, debugging and troubleshooting
- Dockerized and deployed Java project via CI/CD pipeline using **Docker** and **Jenkins**

Homelink Real Estate Agency Co., Ltd   Beijing, China
Data Engineer intern   *June 2018 - Aug 2018*
- Worked in a team of ten responsible for improving website and its conversion rate to increase houses sales
- Constructed a multi-step workflow in **Python** and **Spark(Scala)** to pre-process clickstream data and implemented Web UI based on **React.js** and **bootstrap**
- Built real-time, low-latency machine learning models and recommendation systems with Python; tested and optimized the performance of online house recommendation which increased conversion rate by 15.38%

PROJECTS

Perfect recipe - Node.JS Web Service (Full-Stack Development)   *June 2019 - Aug 2019*
- Developed a dynamic web page for users to share recipes, write comments and get personalized recommendation
Back End:
- Utilized **Express** Framework in node.JS with **RESTful APIs** to handle HTTP requests and responses
- Built **NoSQL databases (MongoDB)** to manage data of recipes and users' preference
- Designed algorithms (e.g., content-based recommendation) to implement recipe recommendation with **Python**
- Deployed server side to Amazon EC2 which is able to handle 150 queries per second tested by Apache JMeter
Front End:
- Designed an interactive web page utilizing **BootStrap**

VizAssist - An Android App Using Cloud OCR   *Aug 2019 - Sep 2019*
- Developed a mobile app to assist blind users with text reading tasks by translating photos to text message
- Developed an Android Camera App utilizing Talkback, Scanner tools as client side based on Gradle, Android SDK
- Utilized **Espresso** to write Android Integration Testing and utilized Robolectic to write Android **Unit Testing**
- Wrote Java servlet to handle HTTP requests and responses and connect to **Google Vision API**
- Deployed on **GCE VM** with **docker** for End-to-end interaction flow and scaled on **Google Kubernetes Engine**

Credit Card Transaction Fraud Detection Project.   *Jan 2019 - Feb 2019*
- Designed and developed a project aimed at detecting credit card transaction fraud using supervised algorithms
- Implemented feature extraction based on sliding time window and filtered features using Kolmogorov-Smirnov
- Performed Logistic Regression, Random Forest, XGBoost, SVM and Neural Network models with **Python**
- Evaluated and selected algorithm with best performance and achieved fraud detection rate of 96.75%