

# Shuang Liang

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## TECHNICAL SKILLS

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Languages: Java, JavaScript, TypeScript, Node.js, React, React-Native, Vue, html, css, Python, R

Tools: Git, IntelliJ, VSCode, Gradle, Webpack, Junit, Jest, Jenkins, SSDT, Jira, AWS, SQL, MongoDB, GraphQL

## EXPERIENCE

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### ThoughtWorks

Nov 2020 – Dec 2022

#### Software Developer

- Involved in all phases of Software Development Life Cycle, gathered and analyzed business requirements and converted them into technical specifications, designed a home service admin web and a mobile app.
- Built the apps based on React and React-Native, supported features including payment, invoice, financing, location tracking, customized forms, and offline mode, improved workflow by allowing the client office to modify and dispatch work orders and notify/receive data from technicians.
- Developed complex UI components and integrated all features compatible with iPad/iPhone and android through responsible design and native module.
- Resolved issues like slow request, SSR inconsistent render, high battery usage, improved 50% waiting time through optimizing request and local cache, smoothed interactions and provided high-quality user experiences.
- Utilized Agile methodology and Jira source control to ensure quick responses and timely delivery of products and service. Used Git source code management and Jenkins as the CI/CD pipeline.
- Followed clean code and TDD technique, implemented unit tests and integration tests to validate business rules, participated in smoke test and environmental test for developed API and pipeline.

### Bank of New York Mellon Corporation

Mar 2017 – Jan 2018

#### Intermediate Representative, Client Service

- Provided full service in cash, FX, securities, and mutual funds transactions; extracted real-time data and related corporate actions from Bloomberg to keep clients informed of business accounts changes.
- Maintain strong relationships with more than ten key clients, investment managers, and other interested parties.

## PROJECTS

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### Model Pokémon

- Developed a Pokémon app prototype with Python Pygame; realized different functionalities in different modules, including Pokémon catching, hatching, fighting, and damage calculation.
- Implemented GUI and Google Maps API to make the game interact with real locations.

### Data Project

- Built data warehouse with SQL Server for a chain restaurant and designed a star schema for OLAP.
- Conducted data mining with R to improve the cost-effectiveness of marketing. Applied random forest and neural network to predict revenue based on social demographics; adjusted the classification threshold value and identified the best performing model by comparing recall/ROC graph.
- Defined the company's KPIs and visualized it in Tableau with storytelling dashboards, recommended strategies to the management team on business line expansion and employee pipeline building.

## EDUCATION

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### University of Massachusetts Boston

2018 – 2020

Master of Science in Information Systems, GPA: 3.5

Courses: Data Warehousing, Data Mining, Project Management, Object-Oriented Design

### University of Massachusetts Boston

2014 – 2016

Bachelor of Arts in Economics, GPA: 3.8

Honors: CLA Students Dean's List Final Year, Joann Phelps Stewart Merit Scholarship for Econ Major