Shuang(Lily) Liang

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TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Node.js, React, React-Native, GraphQL, HTML, CSS, Python, R, SQL
Tools: Git, IntelliJ, VSCode, Gradle, Junit, Jenkins, SSDT, Tableau, MS Project/Excel, Jira

EXPERIENCE

ThoughtWorks   Wuhan, China
Software Developer   Jan 2021 – Dec 2022
Responsibilities:

- 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 like searchable dropdown, 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.
- Followed Agile methodology and utilized 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 Test-driven development (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   Everett, MA
Intermediate Representative, Client Service   Mar 2017 – Jan 2018

- 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

Data Warehousing Project

- Built data warehouse with SQL Server for a chain restaurant and designed a star schema for OLAP.
- 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.

Direct-Mail Fundraising Project

- Conducted data mining with R to improve the cost-effectiveness of direct marketing. Applied random forest, and neural network to predict donors and estimate donation amounts based on social demographics.
- Optimized the model to include potential scope by adjusting the classification threshold value. Identified the best performing model by comparing recall/ROC graph and suggested the best classifier to capture donors.

EDUCATION

University of Massachusetts Boston   2018 – 2020
Master of Science in Business Analysis, *GPA: 3.5*
Courses: Multivariate and Regression, Data Warehousing, Data Mining, and Project Management

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