Yang Cai

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SUMMARY

Experienced Software Engineer with a proven track record of developing and supporting critical systems for financial crimes prevention. Proficient in building and scaling high-throughput, high-availability ML-driven systems on cloud infrastructure, as well as designing and implementing REST APIs and message-driven microservices. Skilled in Kotlin, Spring, and Python, with experience in React and TypeScript. Passionate about leveraging cutting-edge technologies to solve high-impact, real-world problems and drive significant technical and business impact.

EXPERIENCE

Software Engineer
Upstart   **July 2022 – Present, Remote**

· Led the development of a user account creation feature from front-end to back-end, utilizing Next.js and Keycloak to build a highly scalable and secure system that is expected to improve onboarding process efficiency by 30%.
· Collaborated with business stakeholders to develop a new home equity loan product, from concept to actual functionality, utilizing Kotlin, Spring, and R2DBC to build the pricing feature for high-throughput, high-availability systems, with the goal of increasing loan application submissions and improving overall customer satisfaction.
· Created and consumed REST APIs for seamless integration with other applications, ensuring efficient data transfer.
· Delivered a new user interface for the home equity loan funding form by implementing front-end solutions using React and Typescript, with the goal of improving loan funding completion rates.
· Developed message-driven microservices using Kafka messaging system to enable efficient and scalable communication between different components of the system, with the aim of reducing processing time and improving system scalability.
· Conducted thorough unit tests to ensure code quality and scalability, contributing to the development of highly reliable and robust systems.

Data Analyst
Credit Agricole CIB   **March 2020 – May 2022, New York, NY**

· Piloted the development of an audit recommendation snapshot application with Python, leading to a 100% increase in operational efficiency.
· Designed and implemented a continuous monitoring reporting analytics platform technology solutions.
· Played a key role by administering a comprehensive set of tests and analysis to address key areas of risk and control points, as well as reporting results in a timely manner through utilization of Python and Excel.
· Wrote scripts to automate the collection and analysis of large datasets from MyAudit, resulting in significant time and cost savings.

EDUCATION

Master of Arts, Statistics
Columbia University · New York, NY · 2018 · 3.63

Bachelor of Arts, Economics
New York University · New York, NY · 2017 · 3.46

CERTIFICATIONS

Responsive Web Design
freeCodeCamp · 2021
Principal subjects/occupational skills covered HTML and HTML5, CSS, Applied Visual Design, Applied Accessibility, Responsive Web Design Principles, CSS, Flexbox, CSS Grid

Complete Python Bootcamp
Udemy · 2019

The Complete SQL Bootcamp
Udemy · 2018

SKILLS

Hard Skills: Javascript, Typescript, Html Css, Bootstrap, React, Kotlin, Python, Sql, Node JS, API, Restful API
Technical Skills: Spring, Spring Boot, Gradle, Git, Junit, Playwright, Jest