

Technologies

Cassandra Git Java Kafka Linux Python Racket Scala Spark Spring Boot

Skills

Big Data Processing Functional Programming NoSQL Object-Oriented Programming System Design

Experience

Software Engineer at Google

07/2022 - Present

- Maintain and create software to catch breaking changes to Google Search's critical features so they don't enter production.
- Maintain and create stakeholder dashboards to track the number of breaking changes that were prevented.
- Led the team in the creation of our first stakeholder onboarding process and onboarded the first user to our infrastructure.
- Help automate the process of catching breaking changes that could affect Google Search's Generative AI.

Vice President - Software Engineering at JPMorgan Chase & Co.

02/2021 - 07/2022

- Mentored and helped guide junior developers and new hires on the team.
- Was responsible for debugging production issues as they arose and used tools such as Dynatrace and Splunk for assistance.
- Was responsible ensuring our application maintained an SLO of 250 milliseconds regardless of the number of features we added.
- Helped with gathering requirements and prioritization to ensure we met the expectations of our clients.
- Helped with architecting and coding the various applications that the platform supports, using various technologies including, Java, Python, Scala, Pivotal Cloud Foundry, Spark, and Hadoop.
- Helped with DEI recruitment and retention events.

Senior Associate - Software Engineer at JPMorgan Chase & Co.

02/2020 - 02/2021

- Was part of a select group of people within the firm to work on the SBA PPP Loans project, the project helped automate the process of getting government loans to small businesses for support during the Covid-19 pandemic, we helped get more than \$30 billion in loans processed.
- Lead the development of multiple Scala based Spark jobs that do analytics and create KPI reports from our primary application.
- Helped improve the scalability of our application as the number of customers grew over 55 million, ensuring our highly distributed system did not have an increase in latency as our customer size grew.
- Helped create solutions that maintained our applications average response time at 250 milliseconds, as we surpassed more than 425 transactions per second.
- Helped with software engineering recruitment efforts for the firm, as well as, helped plan and run DEI efforts.
- Selected out of an estimate of 30 participants for a weeklong professional program to better understand how to grow as leader.

Associate - Software Engineer at JPMorgan Chase & Co.

10/2017 - 02/2020

- Helped build a Java Spring Boot application from scratch that aggregates data from multiple internal sources to give customers financial insight into their spending and investing habits.
- Helped scale the application to grow from supporting hundreds of customers to millions of customers.
- Created the proof of concept that was used as the basis to move the application into a cloud environment.
- Helped create a CI/CD pipeline for the application, which reduced our deployment time to production from a few hours to approximately 30 minutes.
- Created the first CI/CD pipeline for Spark Jobs within our division in the firm, this was used as the basis for all CI/CD Spark Job pipelines within our division.
- Taught multiple self-defense classes for internal employees.

Education

Illinois Institute of Technology
Master's of Science and Bachelor's of Science
Applied Mathematics Minor

Computer Science

August 2017

Cornell University
Machine Learning Certificate

September 2019

Study Abroad

East China Normal University

Summer 2014

Languages

Chinese (Mandarin) - Limited Working Proficiency