

Anthony Hicks III

Senior Software Engineer

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Experience

JPMorgan Chase & Co.

Senior Lead Software Engineer

05/2024 - Present

- Senior Lead Software Engineer of Big Data Streaming.
- Tech lead for the modernization effort of JP Morgan Chase's advertising platform.
- Lead 3 teams across 3 different time zones to plan, prioritize, and execute the platform features.
- Do code reviews for the platform as well as contribute to the advancement of the platform.
- Assist in translating product requirements to technical requirements for the platform.

Google

Software Engineer

07/2022 - 03/2024

- Created a system to prevent breaking changes from entering Google Search's critical features, using Python, Java, gRPC, Google PubSub, and Google Protobufs.
- Designed and implemented the system to alert appropriate teams when their changes could break Google Search, system was integrated into the binary release processes.
- Created 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.
- Automated the process of catching breaking changes that could affect Google Search's Generative AI.

JPMorgan Chase & Co.

Vice President of Software Engineering

02/2021 - 07/2022

- Mentored and helped guide junior developers and new hires on the team.
- Responsible for debugging production issues as they arose using tools such as Dynatrace and Splunk.
- Integrated various technologies to meet product needs including, Java, Python, Scala, Pivotal Cloud Foundry, Spark, and Hadoop.
- Responsible ensuring our application maintained an SLO of 250 milliseconds even as we continued to scale to millions of customers.
- Gathered requirements and prioritized features to ensure we met the expectations of our clients and stakeholders.
- Designed, implemented, and maintained the ETL Spark jobs for the team.

JPMorgan Chase & Co.

Senior Associate - Software Engineer

02/2020 - 02/2021

- 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.
- Improved 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.
- Created solutions that maintained our applications average response time at 250 milliseconds, as we surpassed more than 425 transactions per second.
- Selected out of an estimate of 30 participants for a weeklong professional program to better understand how to grow as leader.

JPMorgan Chase & Co.

Associate - Software Engineer

10/2017 - 02/2020

- Built a Java Spring Boot application from scratch that aggregated data from multiple Cassandra data stores to give customers financial insight into their spending and investing habits.
- Scaled the application to grow from supporting hundreds of customers to millions of customers by migrating our application onto the cloud.
- 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.

Technologies

Java	Kafka	gRPC	Cassandra	Git
Linux	Protobufs	Spring Boot	Scala	Spark
Pubsub	Python	Hadoop	Racket	

Skills

Big Data Processing	Functional Programming
Highly Distributed Systems	NoSQL
Object-Oriented Programming	

Languages

Chinese (Mandarin): Limited Working Proficiency

Education

Illinois Institute of Technology

Master's of Science and Bachelor's of Science in Computer Science

August 2017

Minor in Applied Mathematics

Cornell University

Machine Learning Certificate

September 2019

East Normal China University

Accelerated Chinese Language Program

Summer 2014