

# Anthony Hicks III

## Senior Software Engineer

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### Experience

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#### **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 on-boarded 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.
- Assisted with DEI recruitment and retention events.

### **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.
- Assisted 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.

### **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.
- Taught multiple self-defense classes for internal employees.

## Technologies

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

## Skills

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

## Languages

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**Chinese (Mandarin):** Limited Working Proficiency

## Education

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### **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*