

SKILLS

- Java 8/11/17/21, Spring/Spring Boot (Batch, Kafka, MQ, Apache CXF, JPA/Hibernate), Cloud Technologies (Docker, Prometheus, Cloudify, Liquibase, Kubernetes, Terraform), UI Technologies (AngularJS, JQuery, Ionic, JavaScript, NodeJS, JSON), PHP (Zend Framework (MVC), Laravel), Python (Flask, Jinja), Agile/Scrum, Tomcat, Jenkins, Web Services
- DBs: MySQL, MongoDB, Microsoft SQL Server, Distributed IBM DB2
- APIs: Google Analytics API, Google/Yahoo Maps API, Facebook API, LDAP, Social Media API

EXPERIENCE

Senior Software Developer

Upgrade Inc / Remote / November 2022 – Present

- Developed reliable and scalable microservices for the investor platform, leveraging asynchronous event-driven communication with Kafka and deploying on AWS using Kubernetes
- Designed and implemented a report prioritization system for the investor report platform by allocating dedicated compute resources for the higher priority reports and parallelizing report execution. This boosted the system's performance by over 55% and cut report generation time from hours to minutes
- Automated our system's payment failure reconciliation procedure, transforming a 60-day manual process with multiple team hand-offs and Excel tracking, which used to require 10 people, into an efficient, automated solution that now requires just one person and completes within hours
- Reengineered the platform's alerting process to rely on metrics and events instead of log scrapping, reducing false positives and missed alerts, and improving incident response time by 90%
- Participated in "on call" rotations to provide 24/7 production support coverage for my team's systems, maintaining a 99.9% uptime SLO and resolving critical issues within an average response time of 30 minutes

Vice President

Morgan Stanley / New York, NY / August 2016 – November 2022

Distributed Real Time Account Balance Calculator (Project/Tech Lead)

- Created a highly scalable, resilient and cloud-based system for providing various client balances (such as spending power, cash available etc.), to replace an existing mainframe-based solution with an Event-Driven Architecture. The highly critical system is designed for high throughput and receives 8M calls per day, processes data for 12M+ accounts and is used by 30+ different applications making it essential for many businesses processes
- Designed in a way to make use of Serverless cloud offerings to achieve easy scalability during peak load times. Uses Docker and Spring Cloud Config for easy cloud portability
- Responsible for leading team of 6 developers, 3 QA testers and 2 SREs. Mentored junior team members to drive an engineering culture by encouraging risk taking to propel innovation. Instilled good development practices such as TDD, code reviews and high level of documentation
- Partnered with QA team to think out of the box and produce automated solutions for all testing needs including triggering of upstream systems thus reducing the overall time spent on testing and freeing up QA testers to focus on critical areas
- Implemented full stack Blue-Green set up including all infrastructure to have two parallel production environments with seamless handoff of traffic. Fully automated the deployment process providing for automated test execution and allowing completely hands-free production deployment
- Guided the team to adopt the SRE mindset and produce highly observable components using frameworks such as Prometheus, Jaeger and Loki
- Implemented automated reconciliation with legacy system for progress monitoring and accountability to business

EXPERIENCE (continued)

Money Movement NextGen (Team/Tech Lead)

- Led the “foundation” squad which was responsible for core platform and engineering deliverables as well playing the role model for other squads. Libraries and components produced by this squad were crucial to the success and progress of the other six squads and had a large focus on reusability
- Played the role of lead developer and architect on a project which replaced a monolithic vendor solution with a home grown, cloud based, Microservices Architecture with reactive event-based communication using Java and Kafka which supports movement of \$2B+ a day. This provided \$4M+ YoY savings in operational and maintenance cost
- Responsible for developing modern architecture and engineering culture in the team as well as reviewing code for soundness
- Mentored junior developers and instilled a custom of documentation and automation. Produced a wiki site with a plethora of documentation which became widely used both by the project team and other external teams
- Led the DevOps and Code Quality guilds, which focused on automation of the code promotion pipeline and the quality of code being developed, respectively. Brought down the testing and deployment cycle from 16 hours to 15 minutes by building automated pipelines for CI/CD. Additionally, implemented automated quality checks and deployments as well as SRE tooling
- Established and continually refined practices and tools used by over 100 developers and 20 different teams. Strove to impart pride and accountability in one’s code across all the developers
- Instituted a system for multiple layers of Digital Signatures on payments, ensuring that the system could not be tampered with by a malicious actor
- Presented in numerous department and firm wide forums to showcase the innovation of the solution and inspire other teams to come up with state-of-the-art solutions

Instant Account Verification (Developer)

- Developed an integration for instant account verification allowing clients to link and verify new external accounts in minutes rather than 3-5 business days

Technology Analyst

Morgan Stanley / New York, NY / June 2015 – August 2015

- Delivered a new application allowing the operations team to make required corrections to trades
- Created a new modern front-end (in Angular JS) and refactored existing API interfaces to be REST compliant
- Collaborated with the business team to analyze requirements and create final documentation

Programmer

FGI Finance / New York, NY / September 2014 – December 2015

- Maintained and enhanced the T.R.U.S.T. application for risk management and financial reporting
- Led the effort to bring the application to the mobile platform, utilizing platform-agnostic REST services and an Ionic frontend

Mobile App Developer

ChefMod LLC / New York, NY / June 2014 – August 2014

- Utilized PhoneGap and REST services to create a new mobile application exposing the company's existing online portal
- Engineered and developed a commerce system and offline storage system to allow users to continue interacting with the portal and updating their shopping carts even when user has no internet connection

EDUCATION

Bachelor in Computer Science (Economics and Web Design Minors)

New York University

May 2016

New York, NY