JAY PANDYA

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WORK EXPERIENCE

JPMorgan Chase & Co.   **Jersey City, New Jersey**
Software Engineer (Associate)   December 2023 – Present

- Spearheaded implementation of ID scanning functionality in authentication UI, integrating hardware devices for the first time in the React web application
- Orchestrated Jenkins CI/CD improvements across 15 microservices, including blue-green deployments and enhanced pipeline integration tests, streamlining the development and release process
- Leveraged spring-cloud-gateway to implement a pilot release strategy for microservices, enabling rapid issue identification and minimizing impact on partner applications
- Championed adoption of spring-cloud-config to enhance system modularity, reduce duplicate configuration, and allow for quick, centralized changes across multiple services within 5 minutes
- Collaborated with 20+ client teams to integrate new UI, managing rollout strategies and implementing Dynatrace Real User Monitoring (RUM) to enhance visibility into user experience and application performance

Software Engineer   August 2021 – December 2023

- Led migration of legacy authentication UI to React framework, improving security, performance, and maintainability while managing 100,000+ lines of code
- Increased code coverage from 20% to 90% across multiple microservices within one quarter, primarily introducing TDD and BDD principles to the project
- Implemented comprehensive full stack testing strategy, including JUnit, Pitest, Cucumber, Blazemeter for backend, and Jest, StrykerJS, PactFlow, and Selenium for frontend, significantly enhancing application reliability and code quality
- Spearheaded migration from Spring into Spring Boot, improving overall system security and maintainability by eliminating high severity vulnerabilities

National Security Innovation Network   **Remote**
Software Engineering Contractor   October 2020 – February 2021

- Developed a cross-platform physical therapy mobile app for DoD-funded startup using React-Native, Unity, and MobX, aimed at rehabilitating injured Army Rangers
- Designed and created a Node.js backend API with MongoDB schema, creating a robust full-stack solution for motion capture of 25+ different exercises and user data management

Nokia Bell Labs Murray Hill   **New Providence, New Jersey**
Software Engineering Internship   June 2017 – August 2017

- Implemented voice control for Kuboki Turtlebot as C# WPF application with speech recognition and TTS, integrating with facial recognition research

EDUCATION

Stevens Institute of Technology   **Hoboken, New Jersey**

- Master of Science in Financial Engineering, Certificate in Algorithmic Trading Strategies
- Bachelor of Engineering in Software Engineering, Minor in Computer Science

PROJECTS

Probability of Informed Trading (PIN) Model   January 2021 – May 2021

- Produced R scripts to process ~30 gigabytes of high-frequency Trade and Quote (TAQ) data from Refinitiv API, implementing new PIN model extensions to incorporate options trades to detect informed trading

Chimera   June 2020 – September 2020

- Developed open-source, JavaScript microservice architecture for IP security cameras, managing RTSP streams, and processing recorded frames with motion detection across 6 applications

Outsmart Options   June 2019 – May 2020

- Led 5-person team in developing a MERN stack options profit calculator, architecting algorithmic JavaScript libraries for options strategy analysis and integrating real-time stock data visualization through REST APIs

TECHNICAL SKILLS

Languages: Java, JavaScript, Groovy, Kotlin, Python, R, C++, C#, HTML, CSS, SASS/SCSS, Less
Frameworks & Libraries: React, AngularJS, Spring Boot, Node, Express.js, JUnit, Jest, StrykerJS, PactFlow, Cucumber
Databases: Cassandra, MongoDB, PostgreSQL
Tools & Platforms: Jenkins, Cloud Foundry, AWS, Dynatrace, Splunk, SonarQube, Blazemeter, Bloomberg Terminal