

# Mihir Rana

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## Professional Experience

### Mastercard

Software Engineer II

New York, NY

April 2024 – Present

- Developed and maintained Java Spring Boot RESTful APIs for cross-border customer payments, handling 50 transactions per second, reducing processing time by 15%, and ensuring 99.9% service uptime
- Implemented Redux and Context API for scalable state management in React applications, reducing state-related bugs by 50% and improving load times by 25%
- Spearheaded the migration of 20+ Java Spring Boot microservices supporting cross-border payment systems to AWS cloud infrastructure, leveraging system design and application development best practices to ensure data integrity, scalability and optimized cloud performance
- Cut infrastructure costs by \$1M by replacing development VMs with Docker containers. This enabled local execution of Spring Boot and Python services, and improved microservice startup time, response latency, and developer productivity by 25%
- Revamped and scaled Helm-based deployment processes for Kubernetes on AWS EKS, automated pod orchestration using AWS CodeBuild, implemented CI/CD pipelines and automation which reduced manual deployment time by over 30%
- Integrated Shell scripting to automate PostgreSQL dump restoration, improve system administration and adopted Python to trigger Jenkins pipelines via the Jenkins API, reducing manual deployment efforts by 20%
- Piloted the AWS migration of an Odoo-based customer onboarding system utilizing a PostgreSQL database, supporting financial payment setup and account provisioning, and reducing deployment time by 10%
- Collaborated with product managers, engineers and architects across 5+ teams in an Agile environment, participating in project planning sessions throughout the Software Development Lifecycle to support the successful migration of cross-border payment services to 4 AWS environments
- Ensured code quality and security by integrating SonarQube for static analysis and Black Duck for open-source dependency scanning, while maintaining 90%+ test coverage through unit testing with JUnit and Mockito

### ADP, Inc.

Associate Software Engineer

Roseland, NJ

February 2022 – April 2024

- Developed 3 client-facing full-stack applications using micro-services architecture and REST APIs with Java, React.js, Node.js, AWS, and MongoDB. These applications cater to clients, partners, business analysts, and enterprise architects
- Leveraged AWS Lambda functions to optimize 7 REST APIs with Node.js, closures, and asynchronous programming, improving response times by 20% and reducing user wait times by 5 seconds
- Migrated 4 on-premises microservices from Express.js to AWS Step Functions, leading to an 11% decrease in monthly operating expenses
- Managed a shared library of reusable responsive UI components, which reduced development time by 35% and ensured a consistent look and feel across related applications
- Created end-to-end tests using WebdriverIO and Cucumber, achieving 85% test coverage, and authored technical documentation to standardize QA processes

## Education

### New Jersey Institute of Technology

Bachelor of Science in Computer Science

Newark, NJ

December 2018 – December 2021

## Skills

**Programming Languages:** Java, JavaScript, TypeScript, Python, HTML, CSS, Bash, SQL, NoSQL

**Frameworks/Services:** Spring Boot, React.js, Angular.js, Node.js, Tailwind

**DevOps:** Kubernetes, Docker, Helm, Jenkins, Linux, Unix, PowerShell

**Cloud Technologies:** AWS (EKS, EC2, RDS, Lambda, S3, SQS, SNS, Step Functions, CloudFormation, CloudWatch)

**Databases:** MongoDB, PostgreSQL, MySQL

**Tools/Platforms:** Git, GitHub, Splunk, Bitbucket, Jira

**Software Development Practices:** Agile, Kanban, Scrum, SDLC, OOP, RESTful APIs, CI/CD, Database Design

**Certification:** AWS Certified Cloud Practitioner

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