

Mihir Rana

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Skills

Programming Languages: Java, JavaScript, TypeScript, Python, HTML, CSS, Bash, SQL
Frameworks/Services: Spring Boot, ReactJS, AngularJS, NodeJS, Tailwind, Selenium, WebdriverIO
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, Aurora, DocumentDB, MySQL
Tools/Platforms: Git, GitHub, Splunk, Bitbucket, Jira, Wireshark
Software Development Practices: Agile, Scrum, SDLC, OOP, RESTful APIs, CI/CD, Database Design
Certification: AWS Certified Cloud Practitioner

Professional Experience

Mastercard

New York, NY

Software Engineer II

April 2024 – July 2025

- Spearheaded the migration of 20+ Spring Boot microservices supporting cross-border payment systems to AWS cloud infrastructure, applying Data Engineering and Data Modeling principles to ensure data integrity and scalability
- Integrated Shell scripting to automate PostgreSQL dump restoration and adopted Python to trigger Jenkins pipelines via the Jenkins API, reducing manual deployment efforts by 20%
- Revamped and scaled Helm-based deployment processes for Kubernetes on AWS EKS, automated pod orchestration using AWS CodeBuild, and reduced manual deployment time by over 30%
- Collaborated with product managers, engineers and architects across 5+ teams in an Agile environment, participating in project planning sessions to support the successful migration of cross-border payment services to 4 AWS environments (development, QA, performance, staging)
- Leveraged Docker to containerize and migrate an internal Python-based testing framework for cross-border payment validation, resulting in a 25% performance boost over VM-based systems
- 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
- 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%

ADP, Inc.

Roseland, NJ

Associate Software Engineer

February 2022 – April 2024

- Developed 3 client-facing full-stack applications with Java, ReactJS, NodeJS, AWS, and MongoDB. These applications cater to clients, partners, business analysts, and enterprise architects
- Leveraged AWS Lambdas to optimize 7 REST APIs which resulted in 20% faster response times and decreased 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 utilizing WebdriverIO with Cucumber to ensure consistent test coverage in the range of 80% to 85%

Education

New Jersey Institute of Technology

Newark, NJ

Bachelor of Science in Computer Science

December 2018 – December 2021

Passaic County Community College

Paterson, NJ

Computer Science Curriculum

August 2017 – December 2018

Projects

Smart Parking Application

- Led a team of 4 students to create a ReactJS proof of concept for Aurora, Illinois. The application enabled citywide parking registration using chosen lot layouts and collected real-time data via parking place pods

Income/Expense Tracker Web App

- Built a Flask-based Python and ReactJS application enabling Google login for user profiles, expense management, sorting, and visualizing income/expenses with bar and line charts

U.S. CITIZEN