

Mihir Rana

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Skills

Programming Languages: Java, JavaScript, TypeScript, Python, HTML, CSS, Bash, MongoDB, PostgreSQL, MySQL

Frameworks/Services: Spring Boot, ReactJS, AngularJS, Tailwind, Selenium, WebdriverIO, Git, GitHub, Bitbucket, Jira

Technologies: AWS (EKS, Lambda, S3, Step Functions, CloudFormation, CloudWatch), Kubernetes, Docker, NodeJS, Helm, Jenkins, Splunk

Networking: Wireshark, GNS, Socket Programming

Methodologies: Agile, Scrum, SDLC, OOP, RESTful APIs, CI/CD

Certification: AWS Certified Cloud Practitioner

Professional Experience

Mastercard

Software Engineer

New York, NY

April 2024 – July 2025

- Played a key role in the migrating of 80+ Java Spring Boot microservices supporting cross-border payment systems to AWS.
- Revamped the implementation and scaling of Helm-based deployment processes for Kubernetes on AWS EKS, automating pod orchestration with AWS CodeBuild and reducing manual deployment time by over 30%.
- Collaborated with 5+ engineering and business teams to support the successful migration of cross-border payment services to 5 AWS environments (development, QA, performance, staging).
- Containerized (using Docker) and migrated an in-house Python-based testing framework for cross-border payment validation, increasing performance by 25% compared to running on VMs.
- Ensured code quality and security by integrating SonarQube for static analysis and Black Duck for open-source dependency scanning, while maintaining 90% and above test coverage through unit tests using JUnit and Mockito.

ADP, Inc.

Associate Software Engineer

Roseland, NJ

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 resulting in 20% faster response times and a decrease of 5 seconds in user wait times.
- 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, reducing development time by 35% and ensuring 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

Bachelor of Science in Computer Science

Newark, NJ

December 2018 – December 2021

Passaic County Community College

Computer Science Curriculum

Paterson, NJ

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 Python and ReactJS app enabling Google login for user profiles, expense management, sorting, and visualizing income/expenses with bar and line charts.
- Conducted client-side and server-side test coverage, stored data in PostgreSQL, and achieved continuous deployment on Heroku, all while upholding industry-standard linting (Airbnb & Pylint).

DailyDash Android App

- Designed an Android app enabling user authentication, weather forecast retrieval, real-time news discovery, and personalized to-do list management.

U.S. CITIZEN