

Nihar Lodaya

📍 New York ✉ niharlodaya7@gmail.com ☎ +1 (347)-494-8434 🌐 NiharLodaya

Summary

Software Engineer with 2+ years of experience building scalable Java/Spring Boot microservices, automating CI/CD pipelines, and delivering reliable AWS/Azure deployments. Skilled in test-driven development, agile collaboration, and ML integration—proven to accelerate release cycles and enhance application reliability.

Work Experience

Software Engineer, Aurionpro

05/2022 – 08/2023

- Engineered and maintained enterprise-grade Java/Spring Boot applications and RESTful APIs, enabling secure processing of ~400K daily transactions with session management and real-time socket modules
- Designed and deployed 12+ containerized microservices on AWS and Oracle Cloud using Docker, Kubernetes, and Helm, accelerating delivery by 40% through CI/CD pipelines built in Jenkins.
- Partnered with cross-functional Agile teams to ship 30+ features with a 95% on-time release rate, leading sprint planning, backlog grooming, and release coordination across environments
- Refactored backend architecture and optimized SQL/NoSQL queries, improving average API response times by 35%, cutting production issues by 40%, and enhancing autoscaling during traffic spikes.
- Integrated monitoring and alerting with Prometheus, Grafana, and ELK stack to reduce mean time to detect (MTTD) and downtime by 25%, streamlining debugging with custom dashboards.
- Collaborated with security and DevOps teams to implement SSO-based authentication, RBAC, and encryption protocols, ensuring end-to-end compliance with enterprise data protection standards.

Skills

Languages — Java, Python, C++, JavaScript, SQL, HTML, CSS

Frameworks/Tools — Spring Boot, React, Next.js, Node.js, Flask, TensorFlow, AWS, Azure, Docker, Git, Postman

Databases — PostgreSQL, MongoDB

Education

Marist University, Master of Science in Computer Science

05/2025

Coursework: Database Management Systems, Networking, Cloud Computing, Artificial Intelligence, Parallel Processing, Software Design and Development, Security Algorithms & Protocols

Mumbai University, Bachelor of Science in Computer Science

05/2022

Coursework: Discrete Mathematics, Database Systems, Calculus, Operating System, Advanced Java, Computer Networks, .NET Technologies, Fundamentals of Algorithms, Web Services, Deep Learning, Linear Algebra

Projects

Emotune: Audio Emotion Analyzer [🔗](#)

- Trained a 1D-CNN on the RAVDESS dataset (2,440 audio clips across 8 emotions), extracting 40 MFCC features per sample
- Achieved 94.8% accuracy and 0.95 macro F1-score on the test set after 50 epochs, reducing preprocessing time by 20% through optimized pipelines
- Implemented dropout and max-pooling layers to prevent overfitting, boosting minority-class F1 by 12%
- Visualized performance with confusion matrix and classification report, ensuring > 90% recall across all emotion classes
- Technologies: Python, TensorFlow/Keras, NumPy, Pandas, Scikit-learn, Matplotlib, RAVDESS Dataset

JavaMovieDatabaseApp [🔗](#)

- Created a full-stack movie management platform, building a Java Spring Boot RESTful API backend connected to a JavaFX user interface.
- Implemented critical functionalities like user authentication (session-based), CRUD operations for movie listings, user-generated reviews, and role-defined access (Admin/User).
- Employed Spring Data JPA for MySQL data persistence within an MVC structure and established robust security protocols with Spring Security.
- Technologies: Java, Spring Boot, Spring Security, Spring Data JPA, MySQL, JavaFX, MVC, REST API

The Hero's Journey - 2D Action-Adventure Game

- Developed a 4-level 2D side-scroller game in 3 months using Processing, featuring platforming, character upgrades, varied levels, and narrative elements.
- Authored comprehensive design documents to streamline QA and collaboration, and tuned the game loop for a stable 60 FPS on Mac and Windows.
- Technologies: Java, Processing, OOP, Game Loop Design, Cross-platform Testing (Mac/Windows)

Getaway - www.getaway.vercel.app [🔗](#)

- Independently built "Getaway," an online hotel-booking platform, from idea to launch in three weeks.
- Implemented end-to-end booking, payment, and image workflows, then deployed with zero-downtime releases on Vercel.
- Crafted a seamless UX with intuitive navigation, secure Stripe payments, and optimized MongoDB queries for fast searches.
- Technologies: JavaScript, React, Next.js, Node.js, MongoDB, Stripe API, Vercel, REST API