

Nihar Lodaya

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EDUCATION

Marist University

M.S in Computer Science

Poughkeepsie, New York, USA

August 2023 – May 2025

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

University of Mumbai

B.S in Computer Science

Mumbai, MH, India

June 2019 – April 2022

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

PROFESSIONAL EXPERIENCE

Marist University – *Software Developer Intern*

Remote, USA

Higher education IT – academic software and research tools

July 2025 – Present

- Developed a prototype diagnostic web application using Java and Spring Boot, integrating large-scale healthcare datasets to streamline early-stage testing and research workflows across multiple departments
- Implemented secure, scalable RESTful APIs and backend logic for efficient data ingestion, validation, and processing, enhancing system modularity and boosting performance by 30%
- Built dynamic, interactive dashboards with React and Chart.js to visualize complex data trends and automate reporting, reducing faculty manual workload by 40% and accelerating decision-making

Aurionpro – *Software Engineer*

Mumbai, MH, India

Enterprise fintech and digital solutions

May 2022 – August 2023

- Enabled secure processing of ~400K daily transactions by engineering enterprise-grade Java/Spring Boot APIs with session management and real-time socket communication, reducing latency and improving reliability under peak loads
- Accelerated feature delivery by 40% and improved deployment stability by designing 12+ containerized microservices on AWS/Oracle Cloud using Docker, Kubernetes, Helm, and Jenkins-based CI/CD pipelines integrated with Git
- Reduced average API response times by 35% and cut production issues by 40% through backend refactoring, SQL/NoSQL optimization, and autoscaling improvements, enhancing system performance during load spikes
- Led Agile collaboration across 30+ feature releases using JIRA and Confluence; contributed to high-quality code through peer reviews, clean code practices, unit/integration testing, and DevOps-aligned monitoring with Prometheus, Grafana, and ELK stack

Projects

JavaMovieDatabaseApp

- Created a full-stack movie management platform, building a Java Spring Boot RESTful API backend connected to JavaFX user interface
- Designed critical functionalities like user authentication (session-based), CRUD operations for movie listings, user-generated reviews, 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 with RBAC enforcement.

GymMaster - Information System for Red Fox Fitness Club (RFFC)

- Built a full-featured membership and inventory management system with a text-based interface, allowing gym staff and users to schedule classes, manage records, and monitor resources in real time.
- Applied object-oriented design principles to structure user roles, workflows, and data models, enhancing code modularity and simplifying future upgrades.
- Streamlined build and testing processes using Maven for project setup, JUnit for automated testing, and Javadoc for clean technical documentation.

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

- Developed a 4-level 2D side-scroller game in 3 months using Processing, featuring platforming mechanics, character upgrades, varied level design, engaging narrative elements, boss fights, and item pickups that enhance gameplay depth.
- Authored comprehensive design documents to streamline QA and team collaboration, optimized the game loop for a consistent 60 FPS on both Mac and Windows by fine-tuning sprite handling, collision detection, and resource management, resulting in smooth and responsive gameplay.
- Incorporated user feedback through playtesting sessions, iterating on difficulty balance and controls to improve player engagement and overall experience.

Getaway - www.getaway.vercel.app

- Independently built "Getaway," an online hotel-booking platform, from idea to launch in three weeks
- Orchestrated booking, payment, and image workflows with secure Stripe integration and deployed with zero-downtime CI/CD on Vercel
- Crafted a seamless UX featuring intuitive navigation, responsive design, and optimized MongoDB queries to ensure fast, accurate searches and smooth user interactions.

SKILLS

Programming Skills: Java, Python, JavaScript, C++, C, PHP, HTML, CSS, Processing

Frameworks & Libraries: Spring, Spring Boot, MVC, React, Angular, Node.js, jQuery, Bootstrap, Ajax, REST APIs, SOA

Databases & Cloud Platforms: MySQL, SQL, Oracle, MongoDB, RDBMS, AWS, Azure

Tools & Technologies: J2EE, JDBC, Servlets, JUnit, Maven, APIs, SDLC, Waterfall, SVN