ROHIT BIRADAR

(617)-652-4006 |biradar.roh@northeastern.edu|LinkedIn|GitHub| Boston, MA

EDUCATION

Northeastern University, *Boston, MA*   **September 2025 – August 2027**
Master of Science in Computer Science (GPA:4.0)

Reva University, *Bangalore, India*   **August 2019 – July 2023**
Bachelor of Technology in Computer Science

EXPERIENCE

Associate Software Engineer   **March 2024 – August 2025**
Torry Harris Integration Solutions   *Bangalore, India*

- Engineered six critical microservices using Spring Boot, **PostgreSQL** and **OracleDB** for loan disbursement and early closure, decreasing overall loan processing time by 35% and improving data integrity.
- Implemented **Kafka**-based asynchronous schedulers for repayment microservices, decreasing debit processing latency by 30ms and improving transaction success rates to 98.06%.
- Eliminated high-read query bottlenecks by adding **Redis** caching, reducing DB load by 60% and improving API/query response time by ~120ms for downstream consumers.
- Automated hourly monitoring with shell scripts and PostgreSQL, cutting report time by 95%, saving 8 hours per week, and ensuring smooth fund flow via Amdocs Web Service Template integrations with real-time alerts.

Associate Software Engineer Trainee   **September 2023 – March 2024**
Torry Harris Integration Solutions   *Bangalore, India*

- Collaborated on backend development of a cloud-based Learning Management System using **Spring Boot** microservices and **ASP .NET**, with a focus on secure authentication and authorization using JWT tokens.
- Implemented centralized authentication and token handling for microservices, storing tokens securely in **AWS S3** to support scalable session management.
- Configured the **API Gateway** for authentication and routing across microservices, and containerized services with **Docker**, contributed to **Kubernetes** deployments supporting 10,000+ daily transactions.

PROJECTS

MoneyMates – Smart Shared Expense & Loan Tracker   **June 2025 – August 2025**

- Implemented a full-stack Spring Boot web application for expense tracking and loan management, improving login security with **JWT** authentication and role-based access control authorization.
- Developed modules for expense splitting, loan disbursement, EMI scheduling, and analytics dashboards, reducing manual calculations 70% and automating reporting for clearer financial insights.
- Integrated **Kafka** notifications, **AWS S3** for uploads and report exports, and Redis caching, cutting response time 55% and supporting high concurrent traffic with low-latency performance.

Emotion Detection Using Machine Learning and OpenCV   **February 2023 – March 2023**

- Led the team of three in the development of a facial emotion recognition system, guiding model design and implementation of the system, achieving **87%** accuracy with solid evaluation.
- Built an end-to-end ML pipeline incorporating **Haarcascade** feature extraction, data preprocessing, and CNN training enabling real-time predictions suitable for both healthcare and educational applications.
- Built and deployed a real-time inference application with an interactive UI and webcam integration.

TECHNICAL SKILLS

Programming Languages: Java, C#, Python, JavaScript
Frameworks & Backend Technologies: Spring Framework, Spring Boot, Spring MVC, RESTful APIs, JDBC, ASP .NET
Frontend Technologies: HTML5, CSS3, Bootstrap
Cloud and DevOps: AWS, Microsoft Azure(**AZ-900**), Docker, Jenkins, Kubernetes, Terraform, Ansible
Databases: MySQL, PostgreSQL, MongoDB, OracleDB, Microsoft SQL Server
Data & Distributed Systems: Apache Kafka, Redis
Tools & Environments: Git, GitHub, Unix/Linux (Ubuntu), CI/CD Pipelines, API Gateway Management
Other Technologies: Machine Learning (scikit-learn, OpenCV)