

# Mayank Sahu

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## Professional Summary

Software Engineer with 3+ years of experience building scalable backend services, automation platforms, and reliability-focused systems for enterprise financial applications. Strong in Java, Python, and Spring Boot with hands-on experience designing REST APIs, microservice integrations, and data pipelines, backed by CI/CD (Jenkins) and production-grade engineering practices. Currently building **Continuum**, an Agent Memory Manager (STM → MTM → LTM) using embeddings and vector search to improve long-running agent consistency beyond basic RAG.

## Technical Skills

**Languages:** Python, Java, JavaScript, SQL, HTML, CSS

**Frameworks & Libraries:** Spring Boot, React.js, Node.js, Flask, Selenium, Playwright, JUnit, PyTest, BDD (Serenity/Cucumber-style)

**Automation (Desktop/Web):** UI automation on Windows, accessibility-driven automation (Java Access Bridge), FlaUI-style desktop automation

**Databases:** MySQL, PostgreSQL, MongoDB, SQL Server, Vector Databases

**DevOps & Tools:** Jenkins, Git, REST APIs, Microservices, Code Review

**AI/ML:** OpenAI API, Embeddings, RAG, Retrieval Orchestration, scikit-learn, Crew AI

**Testing:** Test Automation, API Testing, Regression Strategy, Performance Testing, Quality Engineering

## Professional Experience

### Broadridge India

*Software Engineer (Platform & Reliability)*

July 2024 – Present

Hyderabad, Telangana

- Designed and delivered internal engineering platforms and workflow automation for enterprise financial systems, improving release throughput by 40% and reducing manual operational effort by 60%
- Built and maintained backend services (Java/Python) and integrations to support quality signals, execution workflows, and platform insights consumed by cross-functional teams
- Implemented and optimized REST APIs and service-to-service communication patterns, improving scalability by 3x and reducing response latency by 45%
- Strengthened reliability through CI/CD hardening (Jenkins, Docker) and observability improvements (monitoring/alerting), reducing Mean Time to Detection (MTTD) by 50%

### Broadridge India

*Software Engineer (Engineering Productivity)*

June 2023 – July 2024

Hyderabad, Telangana

- Developed reusable engineering components and automation-driven workflows to standardize releases and improve developer productivity across multiple teams
- Led code reviews and introduced maintainable design patterns for Java and Python services, improving quality metrics by 35% and reducing production issues by 25%
- Built CI/CD pipelines with Jenkins, reducing deployment time by 70% and improving environment consistency
- Partnered with stakeholders to define actionable platform insights (execution signals, reliability indicators) and shipped incremental improvements with clear ownership

### Broadbridge

*Software Engineering Intern (Automation & Tools)*

September 2022 – June 2023

Hybrid

- Built automation-driven tooling and scripts for critical business workflows, improving repeatability and accelerating release readiness for enterprise applications
- Re-engineered a legacy batch processing workflow in Java and Python, improving throughput by 5x and reducing processing time from hours to minutes

### HighRadius

*Product Intern*

January 2022 – September 2022

Bhubaneswar, Odisha

- Built full-stack features for a B2B payment platform using React.js, Node.js, and MongoDB for 500+ enterprise clients
- Developed an ML-based invoice matching system using Python and scikit-learn that reduced manual processing time by 80%
- Delivered 12 production-ready features across 3 major releases in Agile sprints with product and UX teams

## Technical Projects

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### Continuum – Agent Memory Manager | Python, OpenAI API, Vector Databases

Dec 2024 – Present

- Built a multi-layer memory system (STM/MTM/LTM) to manage conversation context and task history with lifecycle-aware retention and retrieval
- Implemented embeddings + vector similarity search with a pluggable vector-store design to support multiple backends
- Designed memory routing to query the right layer based on recency, task relevance, and durability, improving long-running agent consistency beyond basic RAG
- Architected modular services (embedding, memory layers, retrieval/orchestrator) to keep providers and storage backends swappable
- Delivered v1 with STM and MTM complete; building v2 roadmap including memory UI (browse/edit/delete) and graph-style memory navigation

### E-Commerce Platform | React, Node.js, MongoDB, Stripe API

2023

- Developed a full-stack e-commerce application with catalog, cart, authentication, and payment processing using Stripe
- Built REST APIs with Node.js/Express and secure authentication with JWT-based flows

## Education

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### Siksha 'O' Anusandhan University

Aug 2019 – May 2023

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.66/10.0

- Relevant Coursework: Data Structures and Algorithms, Machine Learning, DBMS, Software Engineering, Cloud Computing, OS, Computer Networks
- Leadership: Technical Lead at College Coding Club; organized technical workshops and peer learning sessions
- Activities: National Service Scheme (NSS) volunteer