

MAYANK SAHU

Hyderabad, Telangana, India

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Technical Skills

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

Frontend Technologies: React.js, Next.js, TailwindCSS, Material-UI

Backend Technologies: FastAPI, Spring Boot, Node.js, Flask

AI/ML & Data: PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, LangChain, Vector Databases, RAG

Databases: PostgreSQL, MySQL

Testing & Quality: Selenium, PyTest, JUnit, Test Automation, Performance Testing, Code Review

Experience

Broadridge India

July 2024 – Present

Platform Quality Engineer

Hyderabad, Telangana

- Architected and implemented comprehensive test automation frameworks using Python and Selenium, reducing manual testing efforts by 60% and improving release cycle time by 40%
- Developed and maintained full-stack financial applications using React.js, Spring Boot, and MySQL Server, serving 10,000+ enterprise users with sub-second response times
- Implemented RESTful APIs and microservices architecture that improved system scalability by 3x and reduced API latency by 45%
- Collaborated with cross-functional teams to implement platform monitoring solutions, reducing mean time to detection (MTTD) by 50% through proactive alerting systems

Broadridge India

June 2023 – July 2024

Member Technical

Hyderabad, Telangana

- Built automated testing suites using JUnit and PyTest, achieving 85% code coverage and reducing regression testing time from 2 days to 4 hours
- Led code review initiatives for Java and Python codebases, establishing best practices that improved code quality metrics by 35% and reduced production bugs by 25%
- Designed and deployed CI/CD pipelines using Jenkins and Docker, enabling automated testing and deployment for 15+ microservices with 99.5% uptime
- Mentored junior engineers on testing methodologies and quality assurance practices, conducting weekly knowledge-sharing sessions

Broadridge

September 2022 – June 2023

Automation Intern

Hybrid

- Automated 400+ test cases using Python and Selenium, reducing manual testing efforts and accelerating release cycles for critical financial applications
- Re-engineered legacy batching process by converting it to Java and Python, achieving 5x performance improvement in data processing throughput

HighRadius

January 2022 – September 2022

Product Intern

Bhubaneswar, Odisha

- Built full-stack features for B2B payment platform using React.js, Node.js, and MongoDB, enhancing user experience for 500+ corporate clients
- Developed AI-powered invoice matching system using Python and scikit-learn, reducing manual processing time by 80%
- Collaborated with product and design teams in Agile sprints, delivering 12 features across 3 major releases

Projects

Continuum - Agent Memory Manager | *Python, OpenAI API, Vector Databases*

Dec 2024 – Present

- Built a multi-layer agent memory system (STM/MTM/LTM) in Python to manage conversation and task context with lifecycle-aware retention and retrieval, improving long-running agent reliability beyond basic RAG
- Implemented embedding and vector retrieval pipeline using OpenAI embeddings with pluggable vector-store architecture to support scalable semantic search across memory layers
- Designed memory routing logic to query the right layer (STM for recency, MTM for ongoing tasks, LTM for durable knowledge), reducing context loss in extended sessions through intelligent retrieval orchestration
- Structured codebase with service abstractions (embedding service, memory layers, retrieval/orchestrator) to keep providers and storage backends swappable, enabling flexible deployment options
- Delivered v1 with STM and MTM implementation complete; LTM layer in progress with v2 roadmap for memory UI (browse/edit/delete) and graph-style memory navigation

Education

Siksha 'O' Anusandhan University

2019 – 2023

Bachelor of Technology in Computer Science

CGPA: 8.66/10.0

- Relevant Coursework: Data Structures & Algorithms, Machine Learning, Database Systems, Software Engineering, Cloud Computing
- Activities: National Service Scheme (NSS), Technical Lead - College Coding Club