

SACHIN TRIPATHI

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PROFILE SUMMARY

B.Tech CSE graduate (2026) with hands-on backend development experience in Java and Spring Boot. Currently working as an AI Java Intern building secure authentication systems using magic link login, Java 17, Spring Boot, Spring Security, and AWS. Skilled in REST API development, JWT and RBAC authorization, database integration, caching, and cloud deployment through internships and production-grade projects. Seeking SDE or Backend Developer opportunities to build scalable, secure applications.

TECHNICAL SKILLS

- **Languages & Frameworks:** Java 17, Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Hibernate
- **Backend & API Development:** REST API Development, JWT Authentication, RBAC Authorization, Magic Link Authentication
- **Database & Caching:** MySQL, PostgreSQL, Redis
- **Cloud & DevOps:** AWS, Docker, Git, GitHub, Maven
- **Testing:** JUnit 5, Mockito, Testcontainers
- **AI / LLM Integration:** LangChain4j, RAG (Retrieval-Augmented Generation)

Soft Skills: Problem Solving, Team Collaboration, Adaptability

PROFESSIONAL EXPERIENCE

AI Java Intern | Growth99, Salt Lake City, Utah, USA (Remote)

Jun 2026 – Present

- Contributing to the design and implementation of secure authentication features, including magic link login, using Java 17, Spring Boot, Spring Security, and AWS services (S3, Lambda, IAM, CloudWatch, SQS, SNS).
- Building and integrating REST APIs, and working across the development life cycle, including requirement analysis, implementation, testing, and code review, on enterprise-grade Java applications.
- Collaborating with senior engineers in an Agile environment on scalable backend systems, with the internship on track for full-time conversion.

PROJECTS

NexCart | Java, Spring Boot, Spring Security, Redis, MySQL, Docker, AWS

github.com/SachinTripathi08/NexCart

- Developed a production-grade e-commerce backend with authentication, product catalog, and order management workflows using Java 17 and Spring Boot.
- Secured 9+ REST APIs using JWT and RBAC, enforcing access control across Admin and Customer roles.
- Reduced database load by ~40% by implementing Redis caching for frequently accessed product and user data.
- Designed paginated, sortable, and filterable endpoints, improving data retrieval efficiency for large-scale catalogs.
- Deployed containerized application using Docker on AWS EC2, ensuring a scalable production environment.
- Optimized Hibernate and JPA queries with transaction management, and wrote unit and integration tests using JUnit 5 and Mockito to ensure reliability.

URL Shortener & Click Analytics | Java 21, Spring Boot, PostgreSQL, Redis, Docker

github.com/SachinTripathi08/url-shortener

- Built a URL shortener and click-analytics backend as a clean modular monolith, avoiding unnecessary microservices complexity.
- Implemented short code generation, custom aliases, and expiry-based redirects with concurrency-safe alias creation and database-level constraints and indexes.
- Added Redis caching for redirect lookups, click analytics tracking, rate limiting, and centralized exception handling.
- Containerized the application with Docker Compose (PostgreSQL, Redis) for full local development, with JUnit 5, Mockito, and Testcontainers for integration testing, and Swagger for API documentation.

AI Chatbot POC | LangChain4j, RAG, Java, Spring Boot

- Built a proof-of-concept RAG-based chatbot using LangChain4j and Java, generating context-aware responses grounded in customer-specific data.
- Designed data isolation logic to keep each customer's retrieved context scoped to that customer only, preventing cross-customer data leakage.
- Implemented an in-memory vector store for embedding storage and similarity search as part of the retrieval pipeline.

EDUCATION

- B.Tech in Computer Science & Engineering | BBDNIIT, Lucknow, Uttar Pradesh | 2022 – 2026 | CGPA: 7.7 / 10
- Class XII | UP Board, Basti, Uttar Pradesh | 2021 | 78.80%
- Class X | UP Board, Basti, Uttar Pradesh | 2019 | 78.18%

CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals (AI-900) — Jan 2026

ACHIEVEMENTS & PUBLICATION

- Solved 160+ DSA problems on LeetCode, strengthening problem-solving and algorithmic skills.
- Secured 2nd Runner-up position in RACCAM Hackathon (Rajasthan Police Cyber Crime Awareness Mission).
- Published in JETIR (Journal of Emerging Technologies and Innovative Research), 2026.

LEADERSHIP & EXTRA-CURRICULAR ACTIVITIES

- Coordinator — Institution's Innovation Council (IIC), BBDNIIT, 2024.
- Organized TechFestForEarth Hackathon, and coordinated technical fest UTKARSH (2025 & 2026).