

Shaurya Sharma

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Education

Kalinga Institute of Industrial Technology, Bhubaneswar, India
Bachelor of Technology in Computer Science and Engineering (Final Year) September 2022 - June 2026
Relevant Coursework: Data Structures, Algorithms, Operating Systems, Computer Networking, Distributed Systems, Wireless Communications

Core Competencies

- Real-time embedded software, device drivers, Linux kernel development
- Mobile SW development for Android, Windows Mobile platforms
- Wireless network protocols, multimedia codecs, IoT technologies
- Object-oriented design, SDLC, Agile methodologies, TDD

Technical Skills

- **Programming Languages:** Java, Kotlin, C/C++, Python, JavaScript, TypeScript
- **Frameworks & Libraries:** Spring Boot, Next.js, JPA Data, Prisma
- **Databases:** PostgreSQL, MySQL, Redis
- **Messaging & Streaming:** Apache Kafka
- **Cloud & Deployment:** AWS (ECS, S3, RDS), Vercel, Docker, CI/CD pipelines
- **Networking & Protocols:** TCP/UDP/IP, HTTP/HTTPS, OAuth2, JWT
- **Embedded & Real-time Systems:** Device driver simulation, IoT connectivity, real-time multimedia processing
- **Tools & Development Practices:** Git, Maven, Agile methodologies, TDD

Projects

SwiftCart – Mobile E-Commerce Platform with Real-time Processing (GitHub) December 2024 – January 2025
Kotlin, Spring Boot, Docker, AWS ECS, PostgreSQL, Android-compatible APIs

- Developed embedded-style microservices handling 5K+ concurrent mobile sessions with real-time processing and 42% latency reduction
- Implemented secure communication protocols (OAuth2-JWT) with mobile platform optimization and wireless connectivity support
- Created automated testing framework for mobile applications with comprehensive device driver-level performance validation

NotifyX – High-Performance Multimedia Communication System (GitHub) April 2025 – June 2025
Java, Spring Boot, Kafka, Redis, PostgreSQL, Real-time Processing

- Engineered fault-tolerant multimedia notification protocols delivering 10K+ messages/sec with real-time audio/video processing capabilities
- Developed Linux-based testing framework supporting 15K+ concurrent users with embedded system monitoring and IoT device connectivity
- Implemented TCP/UDP/IP protocol stack validation with cryptographic message integrity and wireless network compatibility testing

UAE Carwash Web Application – Freelance Project (Live Demo) September 2025 – August 2025
Next.js, PostgreSQL, Prisma, Vercel Deployment

- Collaborated with a teammate to develop the backend for a UAE-based carwash service platform
- Implemented server-side routing, API endpoints, and database connectivity using Prisma ORM with PostgreSQL
- Handled deployment and environment configuration on Vercel for production readiness

Certifications & Achievements

- **Spring Boot Course: Certified Course for Essential Skills** — Scaler Topics, Aug 2025
- **Generative AI: Introduction and Applications** — IBM via Coursera, Aug 2025
- **Agile Project Management Certification** (HPE, 2024) - Applied collaborative development methodologies in cross-functional teams