

# ABHILASH REDDY POTHIREDDY

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## EDUCATION

### UNIVERSITY OF CENTRAL FLORIDA

*Master of Science, Computer Science*

**Aug 2024 - Present**

- **GPA:** 4

## SKILLS

- **Programming Languages:** Java, JavaScript, SQL, TypeScript, Python
- **Frontend:** React.js, Angular, Redux, Next.js, DOM Manipulation
- **Backend:** Spring Boot, Spring MVC, Spring Security, Node.js, Express.js, RESTful APIs, Maven, Flask
- **Cloud Platforms & DevOps:** AWS (EC2, S3, Lambda, ECS), Docker, Cloud Services
- **Development Skills:** Software Development Life cycle, OOP, Data Structures, Web Development
- **Databases:** MySQL, Oracle, PostgreSQL, SQL, MongoDB
- **Messaging & Caching:** Kafka, Redis
- **Tools & Practices:** Git, Agile/Scrum, Unit Testing, Code Reviews, MS Office

## EXPERIENCE

### Karnati Systems Inc.

**Apr 2023 - Jun 2024**

*Java Full Stack Developer*

*Canada*

Project: Enterprise Inventory & Order Management Platform

- Improved inventory accuracy by ~30% and reduced manual reconciliation effort by automating inventory validation and real-time stock updates using Java + Spring Boot + MySQL.
- Reduced order processing delays by ~25% under concurrent workloads by implementing transactional order workflows, optimizing JPA queries, and indexing database access using Spring Data JPA + MySQL within an Agile/Scrum software development lifecycle.
- Strengthened application security and data isolation across roles by enforcing JWT-based authentication and fine-grained RBAC on sensitive inventory and order APIs using Spring Security, and conducted peer code reviews to ensure code quality and consistency.
- Enhanced system scalability and API responsiveness by implementing server-side pagination, sorting, centralized exception handling, and reusable service components using Spring Boot + REST APIs, and deploying services in Docker containers on AWS ECS.

## PROJECTS

### Secure Digital Wallet Platform

**Mar 2024**

*PayVault*

- Engineered financially correct money movement with 0 balance drift by implementing double-entry ledger accounting and deriving balances from credits/debits using Spring Boot + MySQL + JPA.
- Hardened authentication and session security by ~90% by rotating refresh tokens, enforcing RBAC, tracking device sessions, and applying brute-force protection using Spring Security + JWT + Redis.
- Prevented duplicate transfers under retries and network failures by enforcing idempotency keys and transactional guarantees using MySQL unique constraints + Redis + service-layer transactions.
- Accelerated transaction processing and fraud detection workflows by ~40% by decoupling risk checks, notifications, and state transitions using event-driven architecture with Kafka (or RabbitMQ) + outbox pattern.

### Security-Driven E-Commerce Platform

**Dec 2023**

*SecureShop*

- Strengthened platform security and access isolation by ~90% by implementing JWT authentication with refresh token rotation, device-bound sessions, and RBAC with permission-level enforcement using Spring Security + JWT + MySQL.
- Prevented unauthorized refunds and horizontal privilege escalation across all workflows by enforcing ownership checks and method-level authorization on checkout, order, and admin APIs using @PreAuthorize + Spring AOP + JPA.
- Improved transactional reliability and data integrity under concurrent checkout flows by implementing DB-backed idempotency keys, optimistic/pessimistic locking, and atomic order state transitions using MySQL + JPA/Hibernate + Spring transactions.
- Enabled full auditability and compliance readiness with zero business-logic coupling by capturing immutable audit trails for authentication, refunds, and admin actions using Spring AOP + Flyway-managed schemas.

## CERTIFICATIONS

- **Cloud Computing Foundation: Wipro**