

# Raman Shrestha

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## EDUCATION

University of Texas at Dallas | *B.S. in Computer Science*

December 2024

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, SQL, JavaScript, TypeScript, HTML, CSS

**Frameworks:** Spring Boot, Spring Security (JWT), React, Angular, Hibernate, RESTful APIs, Node.js, Eureka

**Databases & Data:** PostgreSQL, MongoDB, JDBC, Database Normalization, Pandas, NumPy, scikit-learn

**Cloud & DevOps:** Docker, AWS (EC2, S3, Elastic Beanstalk), Kubernetes, CI/CD (Jenkins), Git, Apache Kafka

**Testing & API Tools:** JUnit, Mockito, Cucumber, API Testing, Swagger UI, Postman

**Concepts:** Data Structures, Algorithms, Object-Oriented Programming (OOP), System Design, SDLC, Agile, Scrum

## EXPERIENCE

### Full Stack Software Engineer | Revature

October 2025 – Present

- Developed and deployed 8+ Spring Boot microservices exposing RESTful APIs with 12+ endpoints, leveraging PostgreSQL, Spring Data JPA, and Kafka for asynchronous event streaming within a microservices architecture.
- Engineered end-to-end application features in a Cognizant enterprise environment by building React components and integrating backend services, delivering 10+ user-facing features across 5+ Agile sprint cycles.
- Containerized backend services using Docker and Docker Compose, enabling consistent local development and supporting deployment to AWS EC2, with application data and static assets stored in AWS S3.
- Automated CI/CD pipelines using Jenkins for build, test, and deployment, integrating JUnit, Mockito, and Swagger UI to ensure test coverage, API consistency, and stable microservices deployments.

### Software Engineer | Independent Projects

September 2024 – March 2025

- Designed and built Java-based backend applications using Spring Boot, implementing core business logic, request validation, and 15+ RESTful CRUD APIs to support daily operations for 2 small businesses over 5 months.
- Developed and integrated client-facing web pages using Angular, HTML, CSS, and JavaScript, connecting frontend components to backend RESTful APIs with standardized JSON responses for reliable data submission and retrieval.

### Software Engineer Intern | The Integration Group of Americas

May 2023 – August 2023

- Launched “Design Center” on Ignition SCADA with Python and Microsoft SQL, applying algorithms for data tracking and alert processing, enabling 5+ oil and gas companies to reduce manual overhead by 40%.
- Supported production systems by validating live data flows, debugging issues, and improving backend reliability.

## PROJECTS

### Amazon Profitability Calculator | *Java, Spring Boot, React, PostgreSQL*

November 2025 – January 2026

- Built a microservices-based Spring Boot application that processes Amazon product data and performs profitability calculations, coordinating service integrations and code reviews through Agile stand-ups.
- Modeled and optimized a normalized PostgreSQL schema using Hibernate ORM to persist 3k+ product records, improving entity relationships and indexes to reduce query latency by 30%.
- Integrated Bright Data APIs via RESTful services to retrieve real-time Amazon product details, publishing events to Kafka to trigger asynchronous profitability calculations across backend services.
- Implemented Eureka Server for service discovery and API Gateway to route service requests across authentication, product, and calculator microservices, using Docker Compose to containerize the system for local development.

### Java Cafe | *Java, Spring Boot, React, PostgreSQL, AWS S3*

August 2025 – October 2025

- Engineered a full-stack ordering platform by developing 8+ Spring Boot RESTful APIs secured with JWT-based authentication, using efficient backend data structures to manage menus, carts, and orders for scalable performance.
- Integrated AWS S3 object storage for scalable upload and retrieval of menu and product images, persisting image metadata in a normalized PostgreSQL data model using Spring Data JPA across 6+ relational tables.
- Improved backend reliability through unit and integration testing with JUnit, Mockito, and Cucumber, achieving 85%+ code coverage using an H2 in-memory database for isolated test environments.

### Python Stock Price Prediction System | *Python, FastAPI, NumPy, Pandas*

March 2025 – June 2025

- Developed a Python application that predicts future stock prices from historical market data by training an LSTM neural network with TensorFlow and exposed prediction functionality through RESTful APIs built with FastAPI.
- Implemented data preprocessing using NumPy and Pandas to clean, normalize, and structure historical data, handling missing values and edge cases to support stable model training and accurate API responses.

## ADDITIONAL EXPERIENCE

### iOS At Home Advisor | Apple

February 2022 – January 2025

- Awarded the Apple Pi Award as a top performer in diagnosing and troubleshooting 3,500+ technical issues.