

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.