

Ritvik Kumar Panchbhaiya

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EDUCATION

George Washington University

Master of Science in Computer Science; GPA: 3.57/4.0

Washington, DC

August 2025 – May 2027

Sikkim Manipal Institute of Technology

Bachelor of Technology in Information Technology; GPA: 8.94/10

Sikkim, India

August 2018 – May 2022

SKILLS

Languages: Java, Go, Python, C#, JavaScript, TypeScript

Frameworks: Thymeleaf, Spring Boot, Hibernate, ReactJS, NextJS, .NET

Databases: MySQL, MS SQL Server, Oracle SQL Developer

Tools & Technologies: Git, Maven, Jenkins, Docker, Kubernetes, Bitbucket, LLM

WORK EXPERIENCE

Accenture

Software Engineer

Hyderabad, India

October 2022 – July 2025

- Built backend services for Bank of America's global Payment Services Hub, supporting the reliable processing of high-volume international payment transactions
- Designed and developed a Spring Boot microservice from scratch to ingest and process millions of payment records from CSV files, ensuring accurate and efficient data persistence.
- Improved data processing performance by optimizing Hibernate queries, indexing, and batch operations, and resolved internationalization issues by handling multi-language character encoding.
- Developed REST APIs and secured admin functionalities using JWT and Spring Security (RBAC).
- Supported CI/CD pipelines using Jenkins and Maven, assisted in Docker/Kubernetes-based deployments, and collaborated with cross-functional teams to ensure smooth production releases.

Agilite Global Solutions Company, LLC

Software Development Intern

Gurugram, India

February 2022 – June 2022

- Developed a full-stack e-commerce application from scratch using ASP.NET Core, C#, Blazor, and SQL Server, handling customer and admin workflows for products, orders, and transactions.
- Designed multi-layered architecture (Controller–Service–Repository), implemented RESTful APIs, and created database schemas to ensure scalable, maintainable, and efficient backend functionality.
- Built interactive Blazor UI components (dashboards, tables, forms) integrated with backend services, optimized database interactions using Entity Framework, and collaborated with mentors on debugging and code reviews.

PROJECTS

GoLlama | Distributed LLM inference system in Go

- Architected the system using a hub-and-spoke model, enabling horizontal-scaling of llama.cpp AI workers to handle high-volume chat, summarization and translation requests without external paid APIs.
- Engineered a fault-tolerant worker pool with round-robin load balancing, automatic health monitoring and a robust retry mechanism, ensuring high availability and optimal resource utilization across distributed nodes.
- Developed secure RESTful APIs exposing endpoints for inference and worker management with JWT authentication and a concurrent job-queue system, complemented by comprehensive load and chaos testing to ensure high-performance, fault-tolerant and production-grade stability.

Simran Graphics | Graphic Design Company Portfolio Website

- Created a responsive portfolio website using HTML, CSS, JavaScript, Node.js, and React.js.
- Enhanced user experience and accessibility, leading to a 50% increase in client inquiries.
- Integrated a user-friendly feedback form that allows potential clients to submit inquiries and requests for quotes.