

YASHASHWINI BHAT

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TECHNICAL SKILLS

- **Languages:** C++, Java, C#, JavaScript, HTML/CSS, Python, SQL
- **Frameworks/ Tools:** .NET Core, React, Node.js, Spring boot, JUnit, Git, CI/CD, VS Code, Docker
- **Cloud and Tech:** Azure, AWS, Vertex AI, Hugging face, LLM API's, MySQL, MongoDB, Agile, Microservices, Kubernetes, Data Structures and Algorithms, Prompt Engineering.

EDUCATION

Northeastern University, Seattle, WA

Master of Science in Computer Engineering (GPA – 3.9)

Related Courses: Computer Architecture, Distributed Systems, Database Systems, Operating Systems

Visvesvaraya Technological University, Karnataka, India

Bachelor of Engineering in Computer Science

Related Courses: OOD using Java, Data Structures and Algorithms, Web Design, Computer Networks.

PROJECTS

SmartHire - AI Job Matching Engine | Node.js, MongoDB, Groq SDK (Llama 3).

November 2025 - Present

- Developed an **agentic RAG workflow** using Llama 3 to dynamically decide when to retrieve job descriptions from MongoDB based on intent analysis.
- Designed **one-shot prompt** workflows with strict JSON schema validation to compute match scores (0–100). Implemented asynchronous processing and **REST APIs** for **scalable** and efficient backend **performance**.

Scalable Chat Application | React, Node.js, Rest API, MySQL

- Implemented **WebSocket** to support instant messaging and provide continuous user updates.
- Deployed real-time chat app using **WebSocket's** and **Docker containers**. Implemented asynchronous message queue to handle **1K+** concurrent users.

Hotel Management System | Java, MySQL, Google calendar, NetBeans, JUnit

- Developed a Java Swing application for hotel management, integrating Google Calendar API for reservations.
- Ensured code quality and reliability through unit testing with JUnit.

Generative AI Risk Analysis Assistant | Vertex AI, Gemini LLM, Rest API, Prompt Engineering

- Developed a generative AI risk analysis assistant using Googles Vertex AI(Gemini) to analyze and summarize risk from unstructured input. Converted prompt workflows into prototype applications for real-time analysis.

EXPERIENCE

MindStack Technologies – Software Engineer, India

June 2018 – May 2021

- **Engineered** scalable Spring Boot microservices and a multithreaded notification system, increasing conversion by **10%** and supporting **1k+ concurrent users**.
- Optimized complex SQL queries and refactored backend architecture to ensure **data integrity** and **high availability** for systems supporting 1k+ concurrent users.
- Containerized applications using **Docker** and implemented **CI/CD pipelines** (GitHub Actions/Jenkins) to automate build, test, and deployment workflows, reducing release cycles by 30%.
- Performed stress testing to ensure the application can handle 100+ simultaneous users while maintaining stable response times.