YASHASHWINI BHAT

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TECHNICAL SKILLS

- **Languages:** C++, Java, C#, JavaScript, HTML/CSS, Python, SQL, TypeScript, Next.js
- **Frameworks/ Tools:** .NET Core, React, Node.js, Spring boot, JUnit, Jest, 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   October 2021 – October 2023
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, Computer Networks (TCP/IP, UDP, Layers)

PROJECTS

SmartHire - AI Job Matching Engine | Node.js, MongoDB, Groq SDK (Llama 3).   November 2025 - Present
- Built a **Full-Stack AI-powered** job matching engine that uses **Retrieval-Augmented Generation (RAG)** by dynamically retrieving relevant job descriptions from **MongoDB** using query-based filtering before generating contextual match analysis with Llama 3.
- 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
- Engineered a full-duplex messaging system for 1k+ concurrent users using **WebSocket's** and **Kafka** for high-throughput distributed message brokering.
- **Containerized the application environment** using **Docker** to ensure consistency across development, testing, and production on **Linux-based systems**.

Hotel Management System | Java, MySQL, Google calendar, NetBeans, JUnit
- Developed a robust Java-based desktop application utilizing **Object-Oriented Design (OOD)** principles.
- 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.
- Implemented **horizontal scaling** and **load balancing** for **Dockerized** services, optimizing resource allocation to maintain stable response times during peak traffic spikes of **1k+ concurrent users**.
- Performed stress testing to ensure the application can handle **100+ simultaneous users** while maintaining stable response times.