

YASHASHWINI BHAT

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TECHNICAL SKILLS

- **Languages:** C++, Java, C#/.NET, 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, Google Cloud (Vertex AI), **Git/GitHub, CI/CD (GitHub Actions)**, 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, Computer Networks (TCP/IP, UDP, Layers)

PROJECTS

SmartHire - AI Job Matching Engine | Node.js, MongoDB, Azure Open AI

- Built a Full-Stack RAG engine using **Node.js** and **React**. Engineered for **interoperability** between Groq (Llama 3) and **Azure OpenAI (GPT-4o)** via a modular backend architecture.
- Architected a scalable backend using **REST APIs** and **Azure AI Search** principles to dynamically filter and retrieve job data, ensuring enterprise-grade performance.

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

- Implemented **WebSocket-based communication** (TCP-bound) to support full-duplex instant messaging for 1k+ concurrent users.
- 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.
- 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.