

# 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, Rest API, Groq, Prompt engineering

- Built a Full-Stack RAG engine utilizing hybrid Vector Search and query-based filtering in MongoDB to dynamically retrieve relevant jobs, leveraging Llama 3 for high-precision contextual match 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 a **scalable** chat application using **WebSocket's** and TCP, managing concurrency and data consistency for real-time messaging across distributed nodes.
- **Containerized the application environment** using Docker to ensure consistency across development and testing.

### 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**.

### Pet Adoption App | React, Node.js, HTML, Rest API

- Built a **React.js, Node.js SPA** enabling users to register and adopt pets. Implemented secure session management and Rest APIs for backend validation and data persistence.

## 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.
- Directed the end-to-end production lifecycle of a microservices-based platform, utilizing **GitHub Actions for CI/CD** and monitoring tools to ensure high availability.
- Performed stress testing to ensure the application can handle **100+ simultaneous users** while maintaining stable response times.