Kaustubh Trivedi

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Profile

Full Stack Software Engineer with 1+ year of professional experience building **scalable, production-grade applications**. Specialized in **React/TypeScript frontends** and **Java/Spring Boot backends**, with expertise in **REST API design, database optimization, and cloud-native deployment**. Proven ability to deliver measurable performance improvements (**35% faster load times, 40% deployment efficiency**) while maintaining strong **code quality and documentation standards**. MSc Computer Science graduate passionate about creating exceptional user experiences through clean, maintainable code.

Key Achievements

- Delivered full-stack applications supporting **100K+ monthly financial transactions** with **99%+ uptime**.
- Reduced deployment time by **40%** through Docker containerization and CI/CD automation.
- Improved application performance by up to **35%** through API optimization and database tuning.
- Experienced in **agile team collaboration, code reviews, documentation, and production support**.

Technical Skills

- **Full Stack Development:** React, TypeScript, Next.js, Java (Spring Boot), Go, Python, Node.js
- **API Development:** RESTful API Design & Implementation, Microservices Architecture
- **Frontend:** HTML, CSS, JavaScript, TailwindCSS, UI/UX Design Principles
- **Cloud & DevOps:** AWS, Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD Pipelines
- **Databases:** PostgreSQL, MySQL, MongoDB (Relational & NoSQL), PgBouncer, PostGIS
- **Testing & Quality:** JUnit, Selenium, TestNG, Postman, Unit/Integration/API Testing
- **Methodologies:** Agile Scrum/SAFe, Object-Oriented Design, Systems Design, Algorithms & Data Structures

Professional Experience

Full Stack Software Developer, Openspace Services Pvt Ltd   Nov 2022 – Jun 2023

- Architected and developed a **full-stack real-estate management platform** using **Next.js (frontend) and Spring Boot microservices (backend)** with PostgreSQL, serving **5,000+ monthly active users** on a **50,000+ LOC production codebase**.
- Designed **database schemas and data models**, ensuring high data integrity and achieving **30% faster data retrieval** through indexing and query optimization.
- Built and deployed **RESTful APIs** and created **comprehensive API documentation** to support frontend and third-party integrations.
- Designed and implemented **Docker-based deployment pipelines with GitHub Actions**, reducing **manual deployment effort by 40%** across Dev, UAT, and Production.
- Collaborated within a **5-person cross-functional engineering team** (UX, QA, Data) following Agile Scrum to deliver secure, scalable services.
- Participated in **production support and incident debugging**, resolving performance issues and maintaining high availability.

Software Engineering Intern, PPLWork – Remote, India   Mar 2022 – Sep 2022

- Designed and implemented **RESTful APIs using Spring Boot + PostgreSQL** for a **payment processing framework handling 100K+ monthly transactions**.
- Optimized **database queries and indexing strategies**, improving **data-retrieval performance by 20%**.
- **Dockerized backend services**, cutting environment setup time from hours to minutes and improving sprint velocity.

- Implemented **automated CI/CD pipelines and test coverage**, reducing regression and deployment issues by **30%**.
- Participated in **on-call production support**, debugging and resolving performance incidents under tight SLAs.
- Authored **technical documentation and API specifications** to support maintainability and knowledge transfer.

Projects

Magpie - MSc Final Project   Sep 2024 – Dec 2024
- Led frontend architecture for **Magpie**, a **production-grade geospatial web application** visualizing public amenities through interactive maps.
- Implemented a **component-driven architecture** using **Next.js, React, and TypeScript**, integrating with **Go-based REST APIs**.
- Applied React performance best practices including **code splitting, memoization, and custom hooks**.
- Integrated **PostGIS-backed spatial queries**, improving **geospatial accuracy and map responsiveness**.
- Created **component documentation and reusable UI patterns**, improving team development speed and design consistency.

Certificates & Courses

- **The Complete Agentic AI Engineering Course (2025) - Udemy** – ongoing
- Software Engineer – HackerRank
- Java (Basic) - HackerRank
- JavaScript (Basic) – HackerRank
- React (Basic) – HackerRank

Education

Technological University Dublin, MSc in Computer Science (Advanced Software Development)   Sept 2023 - March 2025
- **Grade:** Second-Class Honours (2:1)

University of Pune, Bachelor of Engineering in Information Technology   Sept 2019 – June 2022
- **CGPA:** 8.86/10