

Kaustubh Trivedi

Full Stack Software Engineer

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Profile

Full Stack Software Engineer with proven experience building scalable, production-grade applications across Java/Spring Boot backends and React/TypeScript frontends. Demonstrated track record of improving system performance and deployment efficiency across enterprise-scale codebases, with strong foundational knowledge of event-driven development, microservices architecture, and monolith decomposition patterns. MSc Computer Science graduate with cross-functional communication and systems thinking skills, comfortable driving product features from design through to production.

Skills

Programming Languages: Java, Kotlin, TypeScript, JavaScript, Python, Go

Backend & Frameworks: Spring Boot, Node.js, RESTful API Design, Microservices Architecture, Kafka, GraphQL

Frontend: React, Next.js, TypeScript, MobX, HTML, CSS, TailwindCSS

Infrastructure & DevOps: Docker, Kubernetes, AWS, GitHub Actions, Jenkins, CI/CD Pipelines, Datadog

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, PostGIS, PgBouncer

Testing & Quality: JUnit, Selenium, TestNG, Postman, Unit/Integration/API Testing

Methodologies: Agile Scrum/SAFe, Domain-Driven Design, Event-Driven Development, Monolith Decomposition, Systems Design, OOP, Data Structures & Algorithms

Experience

Full Stack Software Developer

India

Openspace Services Pvt Ltd

Nov 2022 – June 2023

- Architected a full-stack real-estate management platform using Spring Boot microservices and Next.js/TypeScript frontend, serving 5,000+ monthly active users on a 50,000+ LOC production codebase.
- Designed PostgreSQL schemas and optimized queries with indexing strategies, achieving 30% faster data retrieval; applied monolith decomposition patterns to isolate service boundaries as the platform scaled.
- Built and documented RESTful APIs supporting frontend and third-party integrations; managed frontend state using MobX to maintain predictable data flow across complex UI workflows.
- Implemented Docker-based deployment pipelines with GitHub Actions CI/CD, reducing manual deployment effort by 40% across Dev, UAT, and Production environments.
- Applied systems thinking and cross-functional communication to align engineering delivery with UX, QA, and Data stakeholders across a 5-person Agile Scrum team, ensuring product features met business outcomes.
- Monitored production services using Datadog, resolving performance incidents and maintaining high availability under tight SLAs.

Software Engineering Intern

Remote, India

PPLWork

Mar 2022 – Sept 2022

- Designed and implemented Spring Boot REST APIs backed by PostgreSQL and MySQL for a payment processing framework handling 100K+ monthly transactions.
- Optimized database queries and indexing strategies, improving data-retrieval performance by 20%; evaluated event-driven development patterns to support asynchronous transaction processing at scale.
- Dockerized backend services, cutting environment setup time from hours to minutes and improving sprint velocity.
- Built automated CI/CD pipelines with test coverage improvements, reducing regression and deployment issues by 30%.
- Monitored on-call production incidents using Datadog dashboards, debugging and resolving performance issues under tight SLAs.
- Authored technical documentation and API specifications to support maintainability and knowledge transfer.

Projects

Magpie – MSc Final Project

Sept 2024 – Dec 2024

Production-grade geospatial web application visualizing public amenities through interactive maps.

- Led frontend architecture using Next.js, React, and TypeScript integrated with Go-based REST APIs, handling 58,000+ spatial data points.
- Applied React performance best practices – code splitting, memoization, and custom hooks – while enforcing WCAG accessibility (a11y) standards to ensure the application met high usability benchmarks for all users.
- Integrated PostGIS-backed spatial queries, improving geospatial accuracy and map responsiveness.
- Created reusable component library and documentation, improving team development speed and design consistency.

Education

Technological University Dublin

Dublin, Ireland

MSc in Computer Science (Advanced Software Development)

Sept 2023 – Mar 2025

- Grade: Second-Class Honours (2:1)

University of Pune

Pune, India

BE in Information Technology

Sept 2019 – June 2022

- CGPA: 8.86/10

Certifications

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