

# Kaustubh Trivedi

Software Engineer

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## Profile

- Software Engineer with 2 years of hands-on experience in Java-based backend development, specializing in Spring Boot, EJB, Hibernate, and microservices architecture. Proven ability to design and deploy robust, scalable backend solutions and RESTful APIs, with strong proficiency in data structures, algorithms, and object-oriented design. Experienced in full-stack development with modern front-end technologies like React, Node.js, and TypeScript, alongside backend tools including SQL, Docker, and CI/CD pipelines with Jenkins and GitHub.
- Graduate of Technological University Dublin with a Master's in Advanced Software Development, expanding technical proficiency into Python, cloud-native development, and machine learning applications. Adept in DevOps, cloud platforms like AWS, and emerging AI tools such as GitHub Copilot and ChatGPT for development acceleration. Passionate about building high-performance, cloud-native applications and contributing to projects involving Generative AI, data visualization, or process automation.

## Professional Experience

Freelance Developer, ([Openspace Services Pvt Ltd](#))

Mumbai, India June 2023 - December 2023

Frontend Developer, ([Openspace Services Pvt Ltd](#))

Mumbai, India Nov 2022 - June 2023

Software Engineering Intern, ([PPLWork](#))

Delhi, India March 2022 - September 2022

## Skills

- **Programming Technologies:** Java, J2EE, SQL, Shell scripting, TypeScript
- **Cloud Platforms(Actively Learning):** AWS, Docker
- **Frameworks:** Spring, Spring Boot, Hibernate, Struts, EJB
- **Web Services:** REST, SOAP, Microservices
- **Database Management:** MySQL, Oracle, DynamoDB
- **Development & Devops Tools:** Jenkins, Git, GitHub, Maven, Docker
- **Testing Tools:** JUnit
- **Generative AI:** Cursor, Github Copilot, Prompt Engineering, ChatGPT
- **Web Technologies:** :React.js, Node.js, JSP, TypeScript, jQuery, HTML, CSS
- **Methodologies:** Agile, Waterfall, CI/CD
- **Visualization Tools:** Excel, Tableau

## Projects

Full-Stack Developer — Personal Project *BounceMissionControl*

June 2024 - Present

- **Project:** BounceMissionControl – A visually immersive mission control dashboard inspired by real NASA missions, designed to educate and engage users through interactive space data visualizations. I built the frontend using React, Next.js, TailwindCSS, and Mapbox GL to create a modular, responsive interface, and designed the backend in Node.js to serve mission metadata and satellite tracking data. I integrated Chart.js for historic Mars weather data visualizations and layered in animations and storytelling elements to enhance engagement. Leveraged AI-assisted development via Cursor for debugging, iterative prototyping, and code optimization, significantly accelerating development while maintaining clean, maintainable code. **Live:** Visit Project **GitHub:** View on GitHub

Full-Stack Developer — MSc Group Project

Magpie – Services at a Glance

Sept 2024 - Dec 2024

- **Project:** Magpie – An interactive geospatial platform built to aid urban planners by providing visual insight into public amenities using satellite data, automated detection, and modern web technologies. As a full-stack developer, I contributed to building a modular frontend using React, TailwindCSS, and Mapbox GL, and a performant backend in Go with PostGIS and sqlc for geospatial data handling. I helped implement DevOps tooling with GitHub Actions, Docker, and Kubernetes (via Flux GitOps), and led frontend architecture using Next.js and Shadcn/UI components. On the machine learning side, I supported development of object detection models using Python and YOLOv8 to identify and classify parking spaces using satellite imagery. The project was evaluated by UX and accessibility experts, and included comprehensive CI/CD, testing automation, and infrastructure-as-code practices. **GitHub:** [View on GitHub](#)

Software Developer

Insurance Core Platform

March 2022 - June 2022

- **Project:** Insurance Core Platform
  - **Client:** Marsh McLennan
  - **Description:** Contributed to building a robust insurance core platform for policy management, claims processing, and customer service. Developed RESTful APIs and microservices using Java, Spring Boot, and Hibernate for modules like policy issuance and claims adjudication. Built real-time data pipelines with Kafka and JMS, integrating SQL and NoSQL databases for analytics, fraud detection, and risk assessment. Collaborated on embedding machine learning models to enhance customer insights. Leveraged CI/CD with Jenkins, Git, and Bitbucket to ensure smooth deployments and rigorous testing for optimal performance and reliability.

Software Developer

Open Payment Framework

June 2022 - September 2022

- **Project:** Insurance Core Platform
  - **Client:** FIS
  - **Description:** Designed and implemented the Open Payment Framework to enable seamless payment processing across various financial institutions. Developed microservices in Spring Boot and managed deployment with Docker for consistent environments across testing and production. Integrated AWS S3 for secure data storage of transaction records, ensuring high availability and compliance with data retention policies. Built a Kafka-based messaging system for real-time transaction updates, providing reliable and high-speed communication between services

Education

Msc in Computer Science (Advanced Software Development)	TU Dublin	Dublin, IE	Sept 2023 - present
Grade: Second-Class Honours (2:1)			
B.E in Information Technology)	Trinity College of Engineering and Research	Pune, IN	Sept 2019 - June 2022
Grades: CGPA: 8.86/10			

Languages

- English [Fluent]
- Hindi [Native]