

ASHUTOSH YADAV

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PROFESSIONAL SUMMARY

A Software Engineer currently pursuing an MSc in Computer Science at University College Dublin, focused on advancing expertise in software engineering, system design, and innovative technology solutions. Experienced in delivering enterprise SaaS solutions for Fortune 500 clients including Sony and Universal Studios. Proficient in Java, Spring Boot, microservices, and cloud-native architectures, with hands-on experience in building scalable, secure, and high-performance systems.

EDUCATION

University College Dublin
MSc Computer Science (Negotiated Learning)

Dublin, Ireland
Sept 2025 - Jul 2026

Thakur College of Engineering and Technology
B.Eng Information Technology (CGPA - 8.34)

Mumbai, India
May 2019 - Jun 2023

EXPERIENCE

Software Engineer — Capgemini Technology Services

Mumbai, India — Mar 2024 – Aug 2025

- Developed and deployed settlement & billing workflows using Java Spring Boot for a SaaS theatrical booking platform serving Sony & Universal Studios, ensuring accurate revenue distribution across 1000+ weekly transactions.
- Built and optimized Java-based microservices and automated workflows, reducing manual settlement approval time by 40% and improving operational efficiency.
- Delivered 4 production-grade Java and JavaScript application screens in Agile Scrum teams with bi-weekly releases, collaborating with QA, Product Owners, and Business Analysts to align features with client requirements.
- Packaged and deployed builds for testing and UAT environments, enabling faster feedback cycles and smoother production rollouts.
- Trained and mentored a batch of new hires in Core Java, accelerating onboarding and ensuring fresher readiness for live project delivery.

Data Analyst Associate — Morningstar, Inc.

Mumbai, India — Oct 2023 – Feb 2024

- Orchestrated the management of complex private equity data, improving workflow efficiency by 30% through the implementation of superior fund evaluation and data routing criteria.
- Quantified market research and data analysis insights that directly contributed to a 15% increase in the overall client retention and satisfaction rate.

Web Development Intern — Sahu Technologies

Mumbai, India — Jun 2022 – Jul 2022

- Architected and launched a dynamic, single-page application front-end using AngularJS, directly enhancing user experience and interactivity for key client web projects.

TECHNICAL PROJECTS

SnapSearch: AI-Powered Image Search Platform — *Python, PyTorch, BLIP, FAISS*

- Developing a scalable image search platform enabling semantic queries over large image collections for enterprise use cases.
- Used BLIP to generate descriptive captions for images, and FAISS to perform fast and accurate similarity search.
- Implementing multithreading for parallel image captioning, accelerating processing of large image datasets.

SoundSphere: Music Streaming Platform — *Node.js, Express.js, React, MongoDB, Vercel*

- Developed a full-stack music streaming platform with dynamic playlist management and real-time playback features.
- Built RESTful APIs using Node.js and Express.js for efficient user authentication and music data handling.
- Designed an interactive React front-end enabling seamless navigation and responsive UI across devices.
- Integrated MongoDB for managing user profiles, playlists, and track metadata.
- Deployed the complete application on Vercel, ensuring fast load times and global scalability.

AetherWings: Flight Booking System — *Java, Spring Boot, Microservices, Angular, MySQL, MongoDB*

- Engineered a microservices-based flight scheduling system ensuring high availability and independent service deployment.
- Utilized MongoDB alongside MySQL for hybrid data management, optimizing performance for unstructured and transactional data.
- Integrated RabbitMQ for asynchronous communication between services, reducing message latency by 25%.
- Implemented JWT-based authentication and Spring Security for secure, role-based access across services.

SkillHub: Modular Training Management Platform — *Java, Spring Boot, Microservices, Angular, MongoDB*

- Designed a modular learning management system using advanced Java features and microservices for scalability and maintainability.
- Leveraged MongoDB for efficient data storage, supporting rapid retrieval of course and user data.
- Integrated AI-based chatbot powered by Google Gemini embeddings for real-time training assistance.

PUBLICATIONS & CERTIFICATIONS

- **Publication:** “Disease Prediction System” – Multicon W Conference, published in the International Journal of Innovative Research in Technology.
- **Certifications:** Microsoft Azure Fundamentals (AZ-900) — Java Masterclass (80 hrs, Udemy) — SQL (Coursera)