

# Mitali Gupta

Software Engineer | Dublin, Ireland

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**Portfolio**: <https://mitaligupta.com/>

**Behance**: <https://www.behance.net/gupta-mitali>

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## Summary

Results-driven Software Engineer with experience in full-stack development, API design, and scalable SaaS applications. Proven ability to optimise databases, enhance backend performance, and deliver high-quality features in Agile environments. Skilled in Java, C#, .NET Core, SQL/NoSQL, and cloud-based workflows (Azure, Github). Currently pursuing a Master's in Computer Science at University College Dublin with a focus on data engineering and intelligent systems. Actively seeking Summer 2025 internships to apply technical expertise and leadership skills in building efficient, data-driven solutions.

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## Technical Skills

- **Programming/ Scripting Languages**: Java, C#, C, Python, Julia, HTML, XML, CSS, TypeScript JavaScript, PHP
  - **Database**: MSSQL, PostgreSQL, MySQL, Cosmos DB, Firebase, Redis
  - **Tools and Frameworks**: .Net, .Net Core, ADO.Net, Bootstrap, Git, Azure DevOps
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## Education

- **MSc in Computer Science (NL) | University College Dublin (UCD), Ireland | 2025-2026**
    - **Relevant Coursework** : Multi-Agent Systems, Cloud Computation, Optimisation, Big Data Programming, GenAI, Agent Oriented Software, Recommender Systems, Bioinformatics
  - **Bachelor of Computer Applications | CHRIST University, India | 2020-2022**
    - **GPA** : 9.69 (out of 10)
    - **Relevant Coursework** : Operating Systems, Data Structures, Database Management, WebTech, Mobile Applications, Machine Learning, Data Analytics, Design and Analysis of Algorithms, Software Engineering
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## Experience

- **Software Engineer | Nsoft (India) Pvt Ltd | India | May'24 - Jun'25**
  - Co-developed the AMR/AMI prototype for five state electricity boards, laying the foundation for large-scale deployment in automated meter reading and data management
  - Took on a **de-facto technical leadership** role, guided design decisions, reviewed code quality, mentored juniors, and acted as the primary technical contact across modules
  - Led **end-to-end development** of GESCOM's Purchase Procurement Module, optimised HRMS workflows (income tax & TDS), and contributed to Power Purchase Module enhancements
  - Delivered full-stack modules for the TRMS prototype, collaborating with **cross-functional teams** to ensure scalability and quality
- **Junior Software Engineer | Idea Elan | USA (Remote) | May'23 – Apr'24**
  - Improved backend performance by developing **REST APIs, Scheduled Tasks and optimising SQL/NoSQL databases**
  - Delivered new features with **unit testing**, boosting user engagement by 15% and reducing downtime by 20%
  - Built and optimised SQL procedures for financial, usage, and analytics reports; **collaborated with UI and QA teams in Agile environment**
  - Communicated technical details through client-facing **API documentation** for McGill, McMaster, UCL, UNH, and Regeneron, etc
  - Awarded "**Best Debut Performer**" at Idea Elan's Annual Fest 2023 for outstanding contributions

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- **Software Engineer Intern | Idea Elan | USA (Remote) | Jan'23 - Apr'23**

- Migrated key features from legacy product *Infinity* to *Infinity X*, improving UX and stability
  - Leveraged .NET Core, C#, MSSQL, and Cosmos DB to deliver features that streamlined operations, **reducing development time by 25%** and **administrative overhead by 30%**, while improving research efficiency
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## Projects

- **Petlet | Mobile Application (Aug'22 – Dec'22)**

- Built a pet management app with **Java**, **XML**, and **Firebase**
- Designed secure login and data storage, ensuring privacy and seamless information access
- Enhanced UI/UX and optimised features through iterative improvements based on user feedback

- **Accio | Mobile Application (Aug'22 – Dec'22)**

- Engineered Accio, a gamified Lost and Found app, using **Java** and **Firebase** in **Android Studio**
- Integrated **image recognition** for item identification and gamification features to enhance engagement
- Led a team of 4 members, coordinating tasks and ensuring timely delivery

- **Astronomical Prediction Model | Machine Learning (Jun'22)**

- Built an **ML model** using **KNN**, **Naive Bayes**, **K-Means**, and **Decision Trees** to predict hazardous bodies
- Optimised accuracy through parameter tuning and **translated technical results** into user-friendly explanations, showcasing communication & problem-solving

- **Animal Alcove | Desktop Application (Jan'22 - April'22)**

- Built a **C# .NET desktop app** for pet shop and adoption management with a **MySQL database** for efficient record handling
- Designed a user-friendly interface for seamless navigation and information access

- **Altruists | Database Management (Jan'22 - May'22)**

- Developed a multifunctional website with **HTML**, **CSS**, **JS (frontend)** and **PHP**, **MySQL (backend)**
  - Implemented database management and integrated **APIs** for payments, chatbot, and GPS services
  - Led a team of 3 members, coordinating tasks and ensuring timely delivery
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## Positions of Leadership

- **Student Coordinator, Labyrinth (Computer Science Club) (Aug'20 - Dec'22)**

- Organised and managed 30+ Conferences, Tech Talks, Workshops, and Competitions, **engaging 1000+ participants** across intra-department, inter-department, university, and national levels
- **Core organiser** of *Futurama 3.0*, a **3-day national Web3 conference**, driving end-to-end planning and execution in collaboration with my team
- Coordinated with diverse teams to ensure smooth event delivery, boosting student involvement and **cross-institutional collaboration**

- **Student Coordinator, WRIT (Women in Research and IT) (Aug'21 - Dec'22)**

- Pioneered the establishment of a **thriving community** for women in technology, leading to increased female participation in tech-related events and projects
  - Facilitated **mentorship programs** and **networking opportunities**, resulting in enhanced collaboration and empowerment within the community
  - Led the establishment of WRIT, **promoting gender diversity and inclusivity** in technology events
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**Languages:** English (Full Professional Proficiency), Hindi (Native/ Bilingual Proficiency)

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## Extracurricular Achievements and Community Involvement

- **Volunteer, Christites for Climate Action (CCA):** Led and participated in 15+ plantation, cleaning, and plant-watering drives in Bengaluru, promoting environmental sustainability
- **Debate Club Member:** Secured top positions in 5+ debating tournaments, demonstrating persuasive communication and critical thinking
- **State-Level Sports Participation:** Captained district Kho-Kho and Throwball teams; represented my state in 100m and 4x100m relay events, showcasing leadership and teamwork