Mitali Gupta

Software Engineer | Dublin, Ireland

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Summary

Results-driven Software Engineer with experience in full-stack development, API design, and scalable SaaS applications. Proven ability to optimize 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.

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

Education

• **MSc in Computer Science(NL) | University College Dublin (UCD), Ireland | Present**
  - **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 | Jul'23**
  - **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

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 t**o 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.

• **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.

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.

Positions of Leadership

• **Student Coordinator, Labyrinth (Computer Science Club) (Aug'20 - Dec'22)**
  - Organized and managed 30+ Conferences, Tech Talks, Workshops, and Competitions, **engaging 1000+ participants** across intra-department, inter-department, university, and national levels.
  - **Core organizer** 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.

Languages: English (Full Professional Proficiency), Hindi (Native/ Bilingual Proficiency)

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.