Rimaansh Bhargava

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EDUCATION

University College Dublin — Dublin, Ireland
M.Sc. in Information Systems (Expected Grade: 1:1) — Sep 2025 – Ongoing

Manipal Institute of Technology — Manipal, India
B.Tech. in Information Technology with a minor in Big Data (Grade: 2:1) — Oct 2021 – Jul 2025

TECHNICAL SKILLS

- **Languages:** C++, Java, Python, C, C#, Dart, JavaScript, SQL
- **Technologies:** Flutter, Unity, Linux, Git, HTML, CSS, Android SDK, React
- **Practices:** Data Structures, Algorithms, Object Oriented Programming, APIs, Database Systems, Agile, Network Programming, Data Mining

EXPERIENCE

Philips — Bangalore, India
Software Developer Intern — Jul 2024 – Jul 2025

- Engineered and **refined** exam cards for MR Image software using **C#** and Windows Presentation Forms, leveraging scalable system designs to achieve a **20% reduction** in processing time.
- Conducted system validation and performance testing by designing **50+ automated test cases** using NUnit and SpecFlow, enabling **95%+ system reliability**.
- Built a performance benchmarking framework comparing memory usage and load times across versions (e.g., 17 MB card: **2765 ms to 520 ms**).

Samsung India — Bangalore, India
Research and Development Intern — Jul 2023 – Apr 2024

- Collaborated with researchers and domain experts to create a 3D fetal ultrasound visualization platform using Unity and C#, integrating real-time rendering and network communication workflows.
- **Implemented high-performance visualization pipelines** for rendering and data transmission, enhancing imaging responsiveness by **25%**.

University of Auckland & Signal Corporation — Remote
Research Intern — Jul 2023 – Aug 2023

- Led a 6-member international team to build cloud-enabled entity recognition workflows in Python, boosting data accuracy by **15%** and ranking among **top solutions**.

Tech Mahindra — Hyderabad, India
Flutter Development Intern — Dec 2022 – Jan 2023

- Launched a high-impact reminders app in a 3-week sprint, integrating **10+ Flutter packages** with real-time sync, caching, and network protocols, boosting user satisfaction by **10%** and reducing development time by **30%**.

PROJECTS

HabitatForge — AI-Powered Space Habitat Design Platform (Live) — React, FastAPI, LangGraph, Three.js

- Built an AI-driven, **NASA-compliant** habitat design platform with real-time **3D visualization** using modular microservices and intelligent layout generation workflows.
- Integrated **LangGraph**, **OpenAI**, and **Hugging Face** APIs to deliver mission planning, design analytics, and pathway generation for **20+ configurations**.

BugScoutAI — AI-Powered Bug Detection Platform (Live) — Next.js, TypeScript, PostHog API, Clerk

- Designed an AI-driven analysis pipeline leveraging **NeonDB + ChromaDB vector sync** to classify user interactions with **95% accuracy for rage clicks** and **85% precision for UX anomaly detection**.
- Integrated seamlessly with **PostHog**, enabling ingestion of **1,000+ session recordings/day** via backend APIs without requiring frontend code changes.

ACHIEVEMENTS & CERTIFICATIONS — All Certifications

- **Hackathons & Competitions:** NASA Space Apps **Global Nominee** (2025), Smart India Hackathon & Kavach Hackathon **National Finalist** (2024), Give(a)Go Hiring Hackathon Dublin - **Winner**, **3rd Place** UCD NetSoc and Arista Networks Coding Competition (2025).
- **Certifications:** Salesforce Agentblazer Champion 2026, Hugging Face AI Agents Course, Deep Agents with LangGraph (LangChain Academy), CISCO thingQbator NASSCOM-authorised Flutter Certificate.