

RAHUL BAGHEL

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PROFILE

Computer Science graduate 2.1 Honours (2025) from TU Dublin with experience in software development and system-oriented programming. Built and maintained applications involving backend logic, APIs, and data handling, with experience across the full development lifecycle. Focused on writing clean, maintainable code and improving application performance and reliability through sound software design principles. Proficient in Python and Java, with working experience using modern frameworks and cloud platforms such as Google Cloud Platform (GCP)

EDUCATION

B.Sc. Computer Science, 09/2021 – 10/2025 | Dublin, Ireland
Technological University Dublin (2.1 Honours)
Key Subjects: Programming, Object Oriented Programming, Algorithm Design and Problem Solving, Advanced Databases, Data Exploration, Web Development, Client Serving Programming, Mobile Software Development, Software Engineering, Artificial Intelligence, Machine Learning, Cryptography & Cyber Security, Advanced Security, Forensics, Operating Systems, Systems Software

TECHNICAL SKILLS

Programming & Software Development Python, Java, JavaScript, SQL, C	Data & Analysis Pandas, NumPy, Machine Learning fundamentals, MySQL, PostgreSQL, NoSQL
Security & Reliability Network security, Intrusion Detection, IT Forensics, Secure Coding Principles, Threat Analysis, OS	Tools & Process Agile/Scrum, Pair Programming, CI/CD exposure, UX collaboration (Figma)

EXPERIENCE

- Java Backend Developer - Intern (Volunteer),** 01/2024 – 05/2024 | Blackrock, Dublin
St. John of God (SJOG)
- Contributed to backend development of an Android application supporting individuals with special needs.
 - Implemented backend logic using Java and XML, including basic data persistence.
 - Worked within a regulated healthcare environment with a focus on reliability and accessibility.
- Assistant Manager - Eddie Rockets** 03/2022 – Present | Dublin 02
- Led and coordinated a team of 20+ staff in a fast-paced environment.
 - Managed high-pressure situations, customer issues, and conflict resolution professionally.
 - Trained and mentored new staff, improving team performance and communication.

FINAL YEAR PROJECT

Network Intrusion Detection and Prevention System (NIDPS), (Python, Machine learning, Flask)

- Designed and implemented a **real-time NIDPS** to detect and prevent malicious network activity.
- Captured and analysed live network traffic and extracted features for anomaly detection.
- Applied **machine learning models** to classify benign vs malicious traffic patterns.
- Achieved reliable detection while processing **~5,000 packets/sec** in testing scenarios.
- Demonstrated strong understanding of **network protocols, threat detection, and security monitoring.**

PROJECT

Expense Tracker, (JavaScript, React Native, Supabase, Express, Render, MySQL)

- Produced a cross-platform mobile application frontend to enable users to track daily expenses, categorize spending, and visualize budget trends.
- Leveraged React Native for the front-end, Express.js for back-end API development, and Supabase for user authentication and real-time database management with **<300ms** latency.
- Deployed the app using Render, achieving **99.9%** uptime during testing.
- Demonstrated skills in JavaScript, API integration, and mobile UI/UX design, resulting in a responsive, secure, and user-friendly financial tracking solution.

CERTIFICATIONS

Certified Back-End Developer

Meta

Google Cloud Certificate

Coursera

Java Programming

Udemy

Android App Development

Java and Kotlin - Udemy

100 Days of Code

Python Bootcamp - Udemy

Certificate for Significant Contribution

CoDesign Team Project

Interests

- | | | |
|--------------|---------|------------|
| • Basketball | • Anime | • Swimming |
| • Astronomy | | |