

# RAHUL BAGHEL

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## PROFILE

Computer Science graduate (2025) from TU Dublin with experience in Software Development. Engineered React applications including a portfolio site with CI/CD and an expense tracker using RESTful APIs. Optimized application performance and security through best practices in code architecture and API design. Skilled in React, Express.js, Python, Java, C#, JavaScript, HTML, CSS, SQL, Git, and Agile. Currently expanding expertise in Google Cloud Platform (GCP) to develop cloud-native, scalable solutions.

## EDUCATION

**B.Sc. Computer Science,** 09/2021–10/ 2025 | Dublin, Ireland  
Technological University Dublin (TU Dublin)  
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

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|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Languages &amp; Tools</b><br>Python, Java, JavaScript, HTML, CSS, React, C programming.                                            | <b>Data Skills</b><br>Pandas, NumPy, Matplotlib, Relational Databases (SQL), NoSQL, Data Cleaning, MongoDB.          |
| <b>Software Testing Other Tools</b><br>Jest, Wireshark, Git, Flask, React, Node.js, express.js, Pair Programming, Code Review, Figma. | <b>Soft Skills</b><br>Leadership, Team Collaboration, Problem Solving, Communication, Time Management, Adaptability. |

## EXPERIENCE

- Assistant Manager - Eddie Rockets

03/2022 – Present | Dublin 02

  - Supervised and coordinated a team of 20+ **staff members**, fostering collaboration, accountability, and strong communication in a fast-paced environment.
  - Delivered excellent **customer service**, handling high-pressure situations, complaints, and conflict resolution with empathy and professionalism.
  - Trained and mentored 5+ new employees, improving team performance and demonstrating **leadership and coaching skills**.
- Java Backend Developer

01/2024 – 05/2024 | Blackrock, Dublin

St. John of God (SJOG) - Intern

  - St. John of God (SJOG) - Intern Facilitated to the development of an Android app supporting individuals with special needs by announcing time and setting daily alarms.
  - Implemented backend logic using **Java** and XML in Android Studio, with minor database integration for user preferences.

- Collaborated with co-designers to create a simple, accessible interface tailored to the cognitive abilities of the users, resulting in a 20% faster task completion time during usability testing.

## PROJECTS

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

- Engineered **NIDPS** as a Final Year Project to enhance real-time network security by identifying and blocking suspicious activities.
- The project involved capturing and analyzing live network traffic using **Python**, with Flask for the backend and **HTML/CSS/JavaScript** for the frontend.
- Utilized Linux-based open-source tools to simulate network flood and attack scenarios for testing system robustness.
- Applied **machine learning** techniques to detect anomalies up to 5,000 packets/sec in testing.
- The project successfully demonstrated the application of real-time threat detection using open-source tools.

### Secure Multithreaded File Transfer System, (C, Linux, CLI)

- Delivered a secure client-server file transfer application in **C** with a **command-line interface (CLI)** for Linux.
- Transformed sockets and pthreads for multithreaded client handling and mutex locks for thread-safe file writes.
- Implemented UID-based file ownership, department-specific routing, and metadata verification to prevent data corruption.
- Designed for LAN environments, ensuring secure, controlled, and race-condition–supporting simultaneous transfers for 10+ clients.

## CERTIFICATIONS

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### Certified Back-End Developer

Meta

### Java Programming

Udemy

### Android App Development

Java and Kotlin - Udemy

### 100 Days of Code

Python Bootcamp - Udemy

### Certificate for Significant Contribution

CoDesign Team Project - TU Dublin

### Japanese Beginner Language

Udemy

## Languages

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- English
- Hindi

## Interests

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- Basketball
- Anime
- Swimming
- Art and Craft
- Music