

RAHUL BAGHEL

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PROFILE

Computer Science graduate (2025) from TU Dublin with a 2.1 grade. Completed certifications in Java Programming, App Development – Java and Kotlin, 100 Days of Python Bootcamp. Skilled in full-stack software development with hands-on experience in React, Express.js, Python, Java, C, and JavaScript, along with strong database management skills in SQL. Passionate about building scalable applications and writing clean, efficient code.

EDUCATION

B.Sc. Computer Science, 2021 – 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

Languages & Tools Python, Java, JavaScript, HTML, CSS, React, C programming	Data Skills Pandas, NumPy, Matplotlib, SQLite, MySQL, Data Cleaning, MongoDB
Concepts Linux Internals, Data Analysis, Machine Learning, IT Forensics, Cryptography, Software Testing.	Software Testing Other Tools Wireshark, Git, Flask, React, Android Studio, IT Forensics

PROFESSIONAL EXPERIENCE

Backend Developer - Talking Clock Application, 01/2024 – 05/2024 | Blackrock, Dublin
St. John of God (SJOG) - Intern
Contributed 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.

Web Developer - Frontend, 01/2023
Freelance Web Developer - Homie Plants
Collaborated with the client to update and enhance the existing website, focusing on content restructuring and improved user experience. Replaced outdated sections with newly written, SEO-friendly content and optimized layout for clarity. Integrated interactive forms and basic analytics to track user engagement. Ensured responsive design using **HTML**, **CSS**, and basic **JavaScript**, while maintaining close communication with the client to align changes with brand goals.

PROJECTS

Network Intrusion Detection and Prevention System (NIDPS), Python, Machine learning, Linux
Developed **NIDPS** as my 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. Applied **machine learning** techniques to detect anomalies. The project successfully demonstrated the application of real-time threat detection using open-source tools.

Tenant Book Data App, Python, JS, CSS, SQL, React
Designed and developed a self-initiated **Tenant Book Data App**, a lightweight CRM-style web tool for landlords to manage tenant and payment records. Built the full stack using **Python, Flask, SQL, JavaScript, HTML**, and **CSS**. Implemented database structures, backend logic, and interactive UI with features like data filtering and summaries. The project streamlined rental data management and showcased my end-to-end development capabilities.

CERTIFICATIONS

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

- English
- Hindi

Interests

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