RAHUL BAGHEL

CONTACT

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PROFILE

Detail-oriented and analytical Computer Science graduate with a strong foundation in data analysis, network security, and machine learning. Experienced in working with large datasets, extracting insights, and presenting findings using visual dashboards and reports. Adept at Python-based data pipelines, testing, and full-stack development. Passionate about supporting data-driven decision-making through accurate and actionable insights.

PROFESSIONAL EXPERIENCE

St. John of God (SJOGO) – Team Project | Jan 2024 –May 2024
Backend Developer - Talking Clock Application

- Developed an application that announces time sets daily alarms, ensuring accessibility for disabled people.
- Collaborated with a team of Co-designers to design a user-friendly interface.
- Implemented Android Studio and Java for app development, testing and deployment.

Freelance Web Developer – HomiePlants | Jan 2023
Web Developer - Frontend

- Created a responsive website (www.homieplants.com) with clear user navigation.
- Integrated forms and analytics to capture customer interaction data.
- Ensured data integrity and security through backend validation and testing.

PROJECTS

Network Intrusion Detection and Prevention System (NIDPS)
Python, Flask, JavaScript, HTML/CSS, TShark, Decision Tree, Pandas, Matplotlib

- Captured and processed live network data using Python and TShark.
- Cleaned, structured, and analysed datasets to detect anomalies and patterns.
- Built classification models (Decision Tree) to flag suspicious behaviours.
- Visualised analysis results and detection metrics using Python dashboards.
- Documented logs and generated reports for system performance and accuracy

Tenant Book Data App
Python, JS, CSS, SQL, React

- Designed a lightweight CRM-like tool for landlords to track tenant data.
- Implemented SQL database to store structured tenant and payment data.
- Introduced data filtering and summary views to facilitate insight retrieval.

EDUCATION

Technological University Dublin (TU Dublin) | 2021–2025
B.Sc. Computer Science

Relevant Modules: : Network Security, Machine Learning, Data Management, IT Forensics, Software Development

TECHNICAL SKILLS

- **Languages & Tools:** Python, SQL, No–SQL, Java, JavaScript, PHP, HTML, CSS, React, C programming, Kotlin
- **Data Skills:** Pandas, NumPy, Matplotlib, TShark, SQLite, MySQL, Data Cleaning
- **Concepts:** Data Analysis, Machine Learning (basic), Anomaly Detection, IT Forensics, Cryptography, Software Testing.
- **Software Testing Other Tools:** Wireshark, Git, Hostinger, Flask, Android Studio, IT Forensics

CERTIFICATES

Java Programming
Udemy

Certificate of Completion SJOG
Faculty of Computer Science TU Dublin

Android App Development
Java and Kotlin – Udemy

Japanese Beginner Language
Udemy