

RAUSHAN RAJ

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Education

Thapar University

Bachelor of Engineering: Computer Engineering

August 2023 – August 2027

Patiala, Punjab

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Operating System
- Software Development
- Database Management
- Network Defence
- Computer Architecture

Professional Training & Certifications

Complete Ethical Hacking Course

zSecurity - Zaid Sabih, Udemy, In progress

Completed Network Hacking section; WPA/WPA2 cracking, MITM/ARP poisoning, Wi-Fi honeypots.

Course ongoing: server-side exploitation, client-side/social engineering, post-exploitation, web app hacking.

Projects

Snaplocate | *Firebase, JavaScript, HTML/CSS, Cloud Storage*

July 2025

- Live project accessible at snaplocate.in serving real users.
- Developed responsive web app with secure Firestore integration, role-based access, and optimized queries.
- Bulk Excel upload with validation to avoid malformed data; implemented lazy loading and filtering.

University Management System | *SQL, PL/SQL, Oracle Database*

April 2024

- Planned and Executed a University Management System as part of a DBMS project to manage students, faculty, courses, exams, and fee records.
- Created ER diagrams, converted them into relational tables, and applied normalization up to 3NF to ensure data consistency and minimize redundancy.
- Developed SQL queries, stored procedures, and triggers to enforce business rules (e.g., email validation, attendance calculation, grade assignment).
- Built PL/SQL functions to calculate total fees paid and student attendance, improving accuracy and efficiency of data handling.

Full-Stack Web Application | *React, Vite, Supabase, REST APIs*

October 2025

- **Live:** [Cryptocrafters](#)
- Developed a responsive application with modular components, reusable UI, and client-side routing.
- Integrated **Supabase (PostgreSQL, Auth, APIs)** to enable secure authentication, real-time database operations, and full CRUD functionality
- Built interactive dashboards and data visualizations using **Recharts** for real-time insights.
- Optimized performance through efficient state management, async API handling, and clean code practices following **ESLint standards**.

Technical Skills

Languages: Python, Java, C, HTML/CSS, React, JavaScript, SQL

Developer Tools: VS Code, AutoCAD, Google Cloud Platform, Jupyter Notebook

Backend & Databases: Firebase (Auth, Firestore), Supabase (PostgreSQL, Auth, APIs), Node.js, Express.js

Systems: Linux, Windows, MacOS, VMware

Focus Areas: Full-Stack Web Development, Cloud-based Applications, Cybersecurity Fundamentals

Extracurricular

Paryavaran Welfare Society (PWS)

2023 – Present

Joint Secretary

Thapar University

- Lead the team to plan, coordinate, and execute society events, ensuring smooth operations and resource management.
- Oversaw the complete management of Econigma, handling venue arrangements, scheduling, and coordination with multiple departments.
- Collaborated with core members to organize awareness campaigns and sustainability-focused initiatives on campus.