Aleena TR

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SUMMARY

Computer Science undergraduate with strong foundations in **Data Structures, Algorithms, and OOP**, with hands-on experience in **C++, Python, and Java**. Skilled in applying concepts through projects in system design, research, and data analysis. Strong leadership, collaboration, critical thinking, adaptability, and communication skills, with proven ability to solve complex problems in team settings.

EDUCATION

Chandigarh University, Mohali   *July 2023 – June 2027*
Bachelor of Technology (B-Tech) in Computer Science & Engineering   *CGPA: 8.22*

PROJECTS & RESEARCH

1. Recurring Payment Firewall   *Dec 2025 – Jan 2026*
   Redis, Node.js, Next.js, DB-Scan, K-Mean
   • Production-grade system for detecting recurring payment subscription abuse, dark patterns and malicious merchants.
   • Built a merchant risk firewall to assess subscription legitimacy using pricing, cancellation, and retry behaviour.
   • Exposed precomputed merchant risk scores via a low-latency public API (<500 ms) backed by Redis caching.

2. Wi-Fi Authenticator   *June 2024 – December 2024*
   Python, Selenium, Flask, Web APIs, Tkinter
   • Automated college WiFi login using Selenium and secure API workflows.
   • Created a lightweight Flask backend with token handling.
   • Built a Tkinter GUI for simple login control and status display

3. Social Media and Mental Health (Research Paper)   *Jan 2026 - Mar 2026*
   Python, Data Analysis, NLP (planned), BERT
   • Analyzed social media behavior with Python and statistical modeling to study depression indicators.
   • Identified influential variables with 93% accuracy, contributing to early detection research.

TECHNICAL SKILLS

• **Languages:** Python (APIs, Scripting), Java, C++, SQL, Swift
• **Developer Tools:** Git, Github, CI/CD
• **Technologies/Frameworks:** Django, Tailwind, Spring Boot / React, IoT
• **Networking:** Basics of TCP/IP, Routing, Switching, VLANs, OSPF

COURSES & CERTIFICATIONS

• Cyber Peace First Responders and Myth Bursters (CyberPeace Corps) (09/2025) Link
• Programming in Java : a Hands-on Introduction (Coursera) (06/2025) Link
• Cloud Computing (NPTEL) (04/2025) Link
• Build a computer vision app with Azure Cognitive Services (Coursera) (04/2025) Link
• Databases and SQL for Data Science with Python (Coursera) (03/2025) Link

ACHIEVEMENTS

Consistent Tech Learner   *Ongoing*
• Solved 70+ DSA problems on LeetCode via structured plans like NeetCode, LeetCode 75, and Top Interview 150.
• Enhanced algorithmic thinking and problem-solving skills with consistent interview-focused practice.
• Maintained GitHub repositories as a personal learning log and project archive with version control.

EXTRA ACTIVITIES

***Gravity Coders**, Chandigarh University – Joint Secretary (Jan 2025 – July 2025)*
• Lead a 700+ member developer community to foster collaboration and skill development.