ADAMYA SINGH Ghāziābād (IN) · +91 78951 60757 · adamyasingh54@gmail.com · linkedin.com/in/adamya-singh · github.com/AdamyaSingh7

SOFTWARE ENGINEERING STUDENT | MICROSOFT SWE INTERN APPLICANT Pre-final-year B.Tech (CSE) student with strong computer-science fundamentals, >1 k LeetCode problems solved, and hands-on experience building performant C++/Python systems and full-stack web apps. Passionate about shipping high-quality code that scales and improves lives.

EDUCATION Jaypee Institute of Information Technology, Noida   2022 – 2026
Bachelor of Technology in Computer Science and Engineering   CGPA 7.1/10
Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, AI/ML

TECHNICAL   SKILLS   Languages   C++,   Python,   JavaScript/TypeScript,   Java,   C
Web / Frameworks React, Node.js/Express, PHP, Tailwind, SFML 3.0, PyTorch Databases MySQL, MongoDB
Cloud   &   DevOps   AWS   (EC2,   S3,   Lambda),   Git/GitHub,   Linux   CLI,   Agile/Scrum
Concepts Object-Oriented Design, Data Structures & Algorithms, Concurrency, Networking, Cryptography

PROJECTS   BrainLink   –
 EEG-BASED BRAIN-COMPUTER INTERFACE   Python, PyTorch, LSL • Built an
end-to-end pipeline converting raw EEG signals into yes/no commands to empower paralyzed users.
• Engineered CNN + LSTM model (1.5 k samples) achieving **82 % accuracy**; cut preprocessing latency **25 %**
via optimized band-pass and artifact removal. • Open-sourced code and documentation; presented results
to 50 + peers and faculty.

Pathfinding Visualizer   C++, SFML 3.0 • Interactive tool
visualizing **A**, *Dijkstra, BFS & DFS on grids >10 000 nodes at 60 FPS to aid algorithm education.* • *Applied
event-driven architecture and memory-safe design, reducing frame drops 40 %** and simplifying feature adds.

File Encryption & Decryption Tool   Java, AES-256 • CLI utility
encrypting files up to 100 MB with **256-bit AES**; custom key derivation and integrity checks ensure **0 % data
loss** across 50 test runs.

Real-Time Chat Application   JS, PHP, WebSocket, MySQL • Developed
secure auth & messaging platform supporting **500 concurrent msgs <200 ms latency** via WebSocket
pooling.

ACHIEVEMENTS • **3rd place** – EXECUTE 23.1 University Coding Contest (200 + participants) • Top 10 % global
– LeetCode (1 000 + questions solved) • Cisco "Introduction to Cyber Security" & Udemy 61.5-hr Full-Stack
Bootcamp certificates • Hackathon finalist (Adobe Hackathon 2024): built "Vibe Check" real-time quiz app

LEADERSHIP & ACTIVITIES • Mentor – guided 30 + juniors in weekly DSA peer-learning sessions, improving
average contest scores 15 %. • Open-source contributor – fixed issues & added features in 5 public GitHub
repos.

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