

# ADAMYA SINGH

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## PROFESSIONAL SUMMARY

SOFTWARE ENGINEERING STUDENT, Pre-final-year B. Tech (CSE) student (graduating 2026) with strong CS fundamentals, **200+ LeetCode problems solved**, and hands-on experience building performant **C++/Python systems** and **full-stack web apps**. Passionate about shipping high-quality code at scale and empowering users through technology.

## EDUCATION

<b>Jaypee Institute of Information Technology, Noida</b>	<b>2022 - 2026</b>
Bachelor of Technology (B. Tech), Computer Science and Engineering	7.1 CGPA
<b>St Mary's School, Najibabad, UP</b>	<b>2022</b>
Class 12 <sup>th</sup>	89.0 Percentage
<b>St Mary's School, Najibabad, UP</b>	<b>2020</b>
Class 10 <sup>th</sup>	94.2 Percentage

## TECHNICAL SKILLS

- **Programming Languages:** C++, Python, Java, JavaScript, C
- **Design:** Object Oriented Design (OOD), Object Oriented Programming (OOP), Software Testing
- **Web Development:** HTML, CSS, JavaScript, PHP, React.js, Node.js, Tailwind CSS, Bootstrap, Next.js(basic)
- **Databases:** MySQL, MongoDB
- **Tools & Platforms:** Git/GitHub, VS Code, CLion, IntelliJ IDEA, Jupyter Notebook, Linux, CMake
- **Methodologies:** Agile, Scrum
- **Soft Skills:** Observation, Problem-solving, Teamwork, Time Management, Adaptability, Communication,
- **Cloud:** Basics of AWS (EC2, S3, Lambda), Azure DevTools (basic).

## PROJECTS

- 1. BrainLink: EEG-Based BCI System for Paralyzed Individuals (Python, PyTorch, PyLSL, Sklearn, MNE)** [Source Code](#)
  - Created a non-invasive **BCI** that lets **paralyzed users answer yes/no with 82 % accuracy** on 1,500 EEG samples.
  - Reduced EEG noise interference by **25%** using pre-processing techniques (e.g., bandpass filtering, artifact removal).
  - Reliability / Observability / Metrics / Logging / Monitoring.
- 2. File Encryption & Decryption Tool (Java, AES)** [Source Code](#)
  - Developed a **Java-based AES-256** encryption system with custom key generation / validation (no external libraries) that securely encrypts / decrypts 10 + files while guaranteeing **100 % data integrity**.
- 3. Pathfinding Visualizer (C++ with SFML 3.0)** [Source Code](#)
  - *Built an interactive **SFML 3.0** visualizer for **A\***, Dijkstra, BFS & DFS on large grids—menu-driven real-time editing, **60 FPS** animations, **+40 % UX**—and backed it with **95 % unit-test coverage** and **GitHub Actions CI/CD** for regression-free releases.*
  - Gathering stakeholder requirements from instructors / students, I added grid-editing, pause/step controls, and color-coded metrics—enhancing product quality and customer impact, lifting satisfaction 25 % and doubling daily active users.
- 4. Real-Time Chat Application (JavaScript, PHP, Web Sockets, SQL)** [Source Code](#)
  - Real-time messaging system for instant communication, implemented Web-Sockets using JavaScript and PHP for real-time data transmission, achieving seamless and instant message delivery.

## EXTRA-CURRICULAR ACTIVITIES

- **Certification:** Completed *Introduction to Cyber Security by Cisco* (June 2024) and *The Complete Full-Stack Web Development Bootcamp* by Udemy (June 2025, 61.5 hours).
- Secured **3rd position in EXECUTE 23.1 university coding contest**; demonstrated strong programming and problem-solving skills.