

Abhirup Kumar

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👤 About me

Passionate software developer with strong problem-solving skills and experience across multiple domains. Solved 803 LeetCode challenges (top 38,974 globally), enhancing algorithmic thinking. Ranked in the top 4% on TryHackMe with expertise in SOC fundamentals and Cybersecurity. Proficient in full-stack web development (MERN), robotics (ROS), and programming languages like Python, JavaScript, C++, Java, and C. Committed to building scalable, well-documented systems with a focus on performance and maintainability.

🎓 Education

Adamas University, B.Tech(Hons) in Computer Science & Engineering Aug 2022 – May 2026

- Graduated with a B.Tech in Computer Science & Engineering.
- **Relevant Coursework:** Database Management Systems, Comparison of Learning Algorithms, Computational Theory, Machine Learning, Data Structures & Algorithms

Kendriya Vidyalaya Tarakeswar, Secondary and Higher Secondary Education April 2010 - June 2022

- Completed secondary education in science and mathematics
- Participated in national-level programming competitions and established strong foundation in STEM subjects

🔧 Skills

🔧 **Programming Languages:** Java, Python, JavaScript, TypeScript, C, Golang, Dart, SQL.

🌐 **Web Technologies:** React.js, Node.js, Express.js, RESTful APIs, HTML5, CSS3, Tailwind CSS, Apache kafka, VPS deployment.

🗄️ **Database Systems:** MongoDB, MySQL, PostgreSQL, Firebase, Redis.

🔧 **Tools & Frameworks:** Git, Vite, Framer Motion, D3.js, Flask, Flutter, Next.js, Docker.

🔧 **Additional:** Algorithm Development, Data Structures, Cybersecurity, SOC Analysis, Threat Detection, Problem Solving, Agile Methodologies, Technical Documentation.

💼 Work Experience

Software Developer, Vizva Consultancy Services, Gurgaon, India - Onsite Jan 2026 - Current

- Built and maintained internal tools and dashboards to streamline daily operations and improve team efficiency
- Developed a custom ticketing system with role-based access control to manage workflows securely and effectively
- Conducted client meetings with international stakeholders to gather requirements and provide project updates
- Delivered projects ahead of deadlines while ensuring quality, reliability, and client satisfaction

Lead Software Developer, HERMEIAS, Delhi, India - Remote May 2025 - Dec 2025

- Developed and currently maintain the official website of the organization accessible at hermeias.org, ensuring regular updates, optimal performance, and a responsive user experience.
- Designed and implemented the user interface for their first web-based product, focusing on usability, clean design, and seamless integration with backend services.

💻 Projects

Algorithm Visualizer

🌐 Live Demo 🐙 GitHub

- Constructed an interactive web-based visualization tool for complex algorithms (sorting, path-finding, graph traversal) that provides step-by-step execution with customizable parameters and visual feedback.

- Incorporated D3.js for dynamic data visualization, executing performance optimizations that enabled smooth rendering of large datasets with 10,000+ elements.
- **Technologies:** React, JavaScript, D3.js, HTML5, CSS3

University Note Management

 Live Demo

- Collaborated on the development of an advanced university note-taking web application, enhancing student productivity by implementing user-friendly features and optimizing performance.
- Contributed to both Frontend and backend components, ensuring seamless integration, responsive UI/UX, and robust data management for a scalable educational platform.
- Implemented and maintained version control workflows using GitHub, facilitating collaborative coding, peer reviews, and continuous delivery in an agile environment.
- **Technologies:** Vite, React, Typescript, Supabase, TailwindCSS, Git, GitHub, REST APIs, Material-UI.

Digital Forensics Suite

 GitHub

- This is a comprehensive project where I have integrated three domains of Cybersecurity into a single platform.
- I used Python for the backend, along with prebuilt libraries for SHA-256 and bcrypt encryption.
- This platform allows users to perform multiple tasks in one place. A detailed project report is also available on the GitHub repository.

Leadership & Extracurricular Activities

Adamas University CSE DEPT BATCH 2022-2026 - Student Placement Coordinator

Apr 2025 - Dec 2025

- As a coordinator, I was responsible for forwarding all messages from our senior coordinators regarding internships or placements.
- We were responsible for completing the tasks assigned by the coordinators and communicating them to the students.

Adamas Robotics And AI Club - Club Coordinator

Jan 2024 - Mar 2025

- Spearheaded 9 technical events and 4 hands-on workshops, engaging 200+ participants and increasing club membership by 35% within three months.
- Led a cross-functional team of 16 members to secure funding for innovative student projects, resulting in 4 successful prototype developments and university-wide recognition.

Awards & Achievements

Competitive Programming Achievement

March 2025

Recognized as one of the top LeetCodeers at Adamas University in Category 2, ranking among all students from 3rd year and above.

Cybersecurity Recognition

March 2025

Achieved top 4% ranking on TryHackMe platform globally, demonstrating exceptional skills in digital forensics, and security operations.