Amritangshu Dey

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LinkedIn | LeetCode | GeeksForGeeks | Code360 | Github | Medium

EDUCATION

Bachelor of Computer Science and Engineering, Vellore Institute of Technology, Bhopal, **9.2 GPA**   2022 - 2026
(Major in Cyber Security & Digital Forensics)

Secondary & Senior Secondary, Vivekananda Kendra Vidyalaya, Laipuli, Tinsukia, Assam, **86 %** | **77.2 %**   2007- 2022

SKILLS

‣ **Technical Languages:** C & C++, Python, Bash, Go, Rust, HTML, CSS, Swift
‣ **Database and Language:** MySQL, MongoDBL, PHP
‣ **Cloud Platforms and Automation:** AWS, Docker, Kubernetes
‣ **Frameworks:** React JS, Node JS, Bootstrap, PySyft, PyTorch, TensorFlow Federated (TFF)
‣ **Version Control Tools and IDE:** Git, Visual Studio Code, Goggle Collab
‣ **Course Work:** Data Structures and Algorithms, Database Management Systems, Security & Networking, Federated Learning
‣ **General Tools:** Data Analytics, Power BI, Tableau, SAP(Basic), Network Security
‣ **Languages:** English, Hindi, Bengali, Japanese

EXPERIENCE

SmartInternz - Full Stack Developer (Externship)   *Jan 2025 - Remote - Ongoing*

· Developing 2+ Full-Stack Applications using MongoDB, Express.js, React, and Node.js (MERN).
· Working in a team of 4 on a group project, implementing scalable Frontend & Backend Solutions.
· Pursuing MongoDB Associate Certification to strengthen Database Expertise.

PROJECTS

WhisperChat - AI-Powered Secure Messaging Platform - GitHub   *(Dec 2024 - Ongoing)*

· Building a real-time messaging app with end-to-end encryption and no chat history retention, ensuring private conversations leave no digital footprint.
· **Role:** Full-Stack Developer
· **Tech Stack Used:** Next.js, Node.js, Express.js, MongoDB, WebSockets, OpenAI API

Privacy Preserving Federated Learning: Using Homomorphic Encryption - GitHub   *(Sep 2024 - Feb 2025)*

‣ Developed a Secure Federated Learning Framework with Homomorphic Encryption to enable Privacy-Preserving Model Training across distributed nodes, as part of a Team Project (7 Members).
‣ **Role:** Model & Datasets Training, Privacy Preservation, Data Sharing
‣ **Tech Stack Used:** Python Script, TensorFlow Federated, PyTorch, Google Collab

SafeServe: FIR Management System - GitHub   *(Aug 2023 - Nov 2023)*

‣ Developed a Full-Stack Prototype FIR portal for filing, tracking, and managing FIRs (Under Madhya Police Department) as part of a Team Project (5 Members).
‣ **Role:** Front-End and Back-End Development, User Authentication
‣ **Tech Stack Used:** HTML, CSS, PHP, Node.js, CodeIgniter, XAMPP, DBWA

CERTIFICATION

Data Management and Analytics : **Quantium (Forage)**	*(Mar 2025)*
Certified AppSec Practitioner (CAP) : **The SecOps Group**	*(Jan 2025)*
Software Engineer Role Certified : **HackerRank**	*(Nov 2024)*
Geo-Data Sharing & Cyber Security Certification : **ISRO**	*(Dec 2023)*

ACHIEVEMENTS & EXTRA-CURRICULAR ACTIVITIES

‣ Winner – For Developing AI Based Security Tool (PhishShield AI) Devpost DeveloperWeek 2025 Hackathon.
‣ 4 Star in Problem Solving and C++, 3 Star in SQL under HackerRank Skill Test.
‣ Achieved 1000+ score and solved 250+ problems on GeeksforGeeks.
‣ Open-Source Contributor to projects under Apertre 2.0 - Resource Community (India).
‣ Team Project Coordinator, Research & Development Team, Cyber Warriors Club, VIT Bhopal.