

Sayan Bhattacharyya

Software Development Engineer

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Summary

I am a full-stack developer pursuing a B.Tech in Computer Science & Engineering at Amity University, Haryana. I am **graduating in June 2025**. Proficient in **Python, JavaScript, TypeScript, Flask, and the MERN stack**, I thrive as a **team player and leader** in dynamic, high-pressure environments. I am passionate about building **scalable applications** and contributing to **open source**.

Education

Amity University, Haryana, B.Tech in Computer Science & Engineering Sept 2021 – June 2025

- GPA: 9.2/10.0

- Activities: Coordinator, Corporate Resource Centre – Ensured **100% participation** in placement drives through team collaboration

Don Bosco School, New Delhi, Senior Secondary in Computer Science Apr 2019 – July 2021

- Percentage: 96.6%

- Activities: **President, SynTech Club** - Organized **3 coding competitions and 2 workshops engaging over 100 participants**

Experience

Associate Software Engineer, Better Software – Rajasthan, Jaipur (remote) Jan 2025 – present

- Creating RESTful APIs using Python/Flask that integrate seamlessly with frontend applications using React.js
- Optimizing the application's server-side performance and translating client requirements into tangible technical solutions

Research Intern, National Institute of Technology – New Delhi, Delhi (onsite) June 2024 – July 2024

- Collaborated with a team of 3 to blueprint an **IoT-based smart irrigation system** - SprinkLink, leveraging problem-solving skills
- Proposed **water reduction of up to 30%** by using soil moisture sensors and weather data to optimize irrigation scheduling

Projects

NerVault [GitHub - nerva-project/NerVault](#)

- Created a **custodial web wallet** for the Nerva (XNV) cryptocurrency, with **CRUD** functionality, including email-verification based authentication, making deposits, sending transactions (with QR code support), and exporting wallet keys
- Tools Used: Flask, MongoDB, PIL, nerva-py

Expense Tracker [GitHub - Sn1F3rt/expense-tracker](#)

- Developed an expense tracker **REST API** with a basic dashboard and **CRUD** functionality to add, update and delete expenses
- Tools Used: Node.js, Express.js, EJS, JSON Server

BlogChain [GitHub - Sn1F3rt/BlogChain](#)

- Implemented a decentralized blogging platform with **CRUD** functionality and **Web3-based user authentication** using native Pythonic implementation of the **Sign-In with Ethereum (SIWE)** protocol
- Tools Used: Flask, MySQL, web3.py, siwe-py

Skills

CS Fundamentals: Data Structures, Algorithms, Object-Oriented Programming (OOP)

Programming Languages: Python, JavaScript, TypeScript

Backend Development: Flask, Node.js, Express.js, REST APIs, MySQL, MongoDB

Frontend Development: React.js, Vue.js, HTML, CSS, Tailwind CSS

DevOps: Git, GitHub, Docker, Kubernetes, CI/CD, Nginx, Linux, Shell Scripting

Languages: English (fluent), Hindi (fluent), Bengali (native)

Certifications

Google Cybersecurity Professional Certificate: Certificate ID - [VGJ37YR52SQH](#)

CS50's Introduction to Programming with Python (edX): Certificate ID - [ab65072be8d34a27acc02e2d6eca6b60](#)