# 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 both 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: Student Coordinator, Corporate Resource Centre (CRC) - Collaborated with CRC team and departments to achieve **100% participation in campus drives**

**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

**Summer Research Intern**, National Institute of Technology – New Delhi, Delhi                    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

**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

**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

**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

**Languages:** Python, JavaScript, TypeScript, HTML, CSS, OOPs

**Frameworks:** Flask, Node.js, Express.js, React.js, Vue.js, Tailwind CSS

**Databases:** MySQL, MongoDB

**DevOps:** Git, GitHub, Docker, Kubernetes, CI/CD, Nginx

**Operating Systems:** Windows, Linux, macOS, Shell Scripting

**Languages:** English (fluent), French (intermediate), Hindi (fluent), Bengali (native)

## Certifications

**Google Cybersecurity Professional Certificate:** Certificate ID - VGJ37YR52SQH

**CS50′s Introduction to Programming with Python (edX):** Certificate ID - ab65072be8d34a27acc02e2d6eca6b60