

SOUBHAGYA SADHUKHAN

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Education

University of Engineering and Management, Kolkata

2023 – 2027

Bachelor of Technology in Computer Science and Engineering

GPA: 8.40 / 10

Technical Skills

Languages: Python, C, Java, Solidity, JavaScript, SQL

Frameworks: React, Express, FastAPI, Node.js

Tools: Git, Docker, Kubernetes, Neovim, Hardhat, CI/CD

Cloud & DevOps: AWS (S3, EC2), Heroku, MongoDB Atlas, Containerization

Databases: MongoDB, MySQL, SQL, NoSQL

Platforms: Linux, Web, Windows, Arduino, Raspberry Pi

Experience

Oodser Technologies, Rwanda

May 2025 – Aug 2025

Full-Stack Developer Intern (MERN Stack)

- Contributed to the development of enterprise-grade applications using the MERN stack (MongoDB, Express, React, Node.js).
- Enhanced user experience by optimizing frontend performance, cutting load times by 25% and improving responsiveness across devices.
- Refactored backend APIs to reduce latency by 30%, ensuring smoother data flow and reliability at scale.
- Improved cross-team collaboration by integrating new UI components and backend services, resulting in a 40% boost in developer productivity.
- Worked on setting up CI/CD pipelines, automating deployment processes, and improving release efficiency.
- Collaborated with teams across multiple time zones using agile methodologies, strengthening communication and remote teamwork skills.

Projects

Inkei – AI PM Assistant | *Flask, React, Vite, MongoDB, Gemini API, Socket.IO*

[GitHub](#)

- Developed **Zenith**, an AI-powered WorkOS designed for SSDLC-compliant product development, combining collaboration, automated analysis, and agile sprint planning in one SaaS platform.
- Implemented a role-based, real-time chat system using **Socket.IO**, featuring persistent memory, JWT-based security, and contextual awareness for each project room.
- Implemented **Delta Branch Detection** algorithms to track deviations from main branches and dynamically adjust estimations in ongoing sprints.
- Designed scalable backend architecture with Flask and MongoDB, while building an interactive and performant frontend with React and Vite.

Tsunami | *Next.js, Express.js, Solidity, Circom, MongoDB, Tailwind CSS*

[Website](#)

- Engineered a **privacy-preserving financial platform** combining **Self.xyz zero-knowledge KYC** with the **fhERC encrypted token protocol** on Ethereum, enabling private transactions while meeting compliance requirements.
- Implemented advanced **cryptographic infrastructure** (Groth16 ZK proofs, ElGamal encryption, Poseidon hashing) to achieve proof generation, encrypted balances, and stealth address support for secure user experience.

Achievements

- ETHGlobal New Delhi 2025 – **1inch Track Winner**
- Avalanche T1 Kolkata Hackathon 2025 – **1st Place**