

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, JavaScript, SQL
Frameworks: React, Express, FastAPI, Node.js
Tools: Git, Docker, Kubernetes, LaTeX, 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
Soft Skills: Leadership, Time Management, Public Speaking, Teamwork

Experience

Oodser Technologies, Rwanda

May 2025 – Present

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.
- Designed and integrated secure RESTful APIs, supporting seamless communication between frontend and backend services.
- 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.
- Integrated a GitHub bot to automatically review pull requests, highlight anti-patterns, and suggest AI-generated fixes using the **Gemini API**, improving code quality and reducing review times.
- Built an intelligent dashboard capable of analyzing uploaded technical documents, extracting requirements, and auto-assigning story points for tasks.
- Implemented **Delta Branch Detection** algorithms to track deviations from main branches and dynamically adjust estimations in ongoing sprints.
- Created the **AI Canvas**, an interface that breaks down high-level epics into smaller subtasks with predicted timelines, dependencies, and workloads.
- Designed scalable backend architecture with Flask and MongoDB, while building an interactive and performant frontend with React and Vite.

Leet-Bot – Discord Coding Challenge Assistant | *n8n, Discord API, Webhooks*

GitHub

- Developed a Discord bot using **n8n workflows** to assist with coding challenges by fetching problems, hints, and test cases.
- Leveraged **Discord API + Webhooks** for real-time event handling, command triggers, and dynamic message formatting.
- Integrated with competitive programming platforms' APIs to fetch metadata and deliver structured problem statements to users.

- Implemented modular flows for context-aware responses—users could request hints, explanations, or solutions via simple commands.
- Designed and optimized workflows for responsiveness and scalability, ensuring smooth use in coding sessions and study groups.

ERC-20 Token – NHC | *Solidity, Hardhat, JavaScript*

GitHub

- Designed, developed, and deployed a custom ERC-20 token with support for transfer, approval, and burn functions.
- Set up a full testing environment in **Hardhat** to simulate token deployment, validate contract logic, and test edge cases.
- Deployed on Ethereum testnet and conducted verification using Etherscan to ensure transparency and auditability.
- Demonstrated understanding of blockchain fundamentals, smart contract security, and tokenomics.

URL Shortener – MERN Stack | *React, Node.js, Express, MongoDB*

GitHub | **Live Demo**

- Developed a secure URL shortening platform featuring user authentication with JWT, custom dashboards, and personalized analytics.
- Implemented URL tracking, expiry dates, and usage statistics to provide actionable insights for users.
- Built an intuitive frontend using React and ensured backend reliability with Express and MongoDB.
- Optimized system for scalability and maintainability, following modular design principles.