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.
− 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.

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.
− Designed and optimized workflows for responsiveness and scalability, ensuring smooth use in coding sessions and study groups.

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.