SOUVIK BASAK

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Education

Institute of Engineering and Management   **CGPA - 8.5/10**
Bachelor of Technology in Electronics and Communication   *June 2021 – June 2024*

Technical Skills

Languages: JavaScript (ES6+), TypeScript, C/C++, SQL, HTML5, CSS3, Python

Frameworks & Tools: React.js, Next.js, Node.js, Express.js, TailwindCSS, Prisma, Socket.io, Zustand, Shadcn UI, Redux

Databases & Infrastructure: MongoDB, PostgreSQL, Redis, Docker, AWS (S3, Cognito), CI/CD (GitHub Actions), Authentication (JWT), Asynchronous Processing, Query Optimization

Testing & Development: Jest, React Testing Library, Cypress, Playwright, Git, Postman, Agile/Scrum

Core CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, Time & Space Complexity, Database Management Systems, Problem Solving, Debugging, SDLC

Experience

Digital Nexus AI (prev. Zummit Infolab), Remote   *Mar 2025 – Present*
Software Developer(full-stack) Intern

- Developed and maintained production-grade full-stack web applications using **Next.js/React**, **Node.js**, and **Tailwind CSS**, supporting both customer-facing platforms and internal enterprise applications with a focus on usability, performance, and reliability. Contributed to design discussions around API structure, database modelling, state management, and performance tradeoffs across frontend and backend systems.
- Designed, implemented, and integrated **15+ RESTful API endpoints**, collaborating on API contracts, data models, and cross-module integrations to reduce data-fetch latency by **25%** and improve overall system reliability. Designed and queried relational databases using **SQL** via **Prisma**.
- Engineered **30+ reusable, standards-compliant UI components** and applied performance optimizations including server-side rendering, CDN-based asset delivery, and lazy loading, achieving up to **700ms faster page load times** while contributing to agile sprints, testing, and technical documentation.

Projects

Wealthy | *Next.js, TypeScript TailwindCSS, Shadcn, Prisma, Inngest, Zod*   GitHub | Live
- **Architected and built** a full-stack financial tracking platform enabling users to manage accounts, transactions, and budgets through validated, type-safe backend workflows.
- **Integrated** the **LLM APIs(Gemini)** to generate intelligent financial insights and summaries, improving user engagement and decision-making.
- **Implemented** asynchronous background jobs and scheduled workflows using **Inngest** and **Resend**, reducing manual effort by **70%** and achieving approximately **95%** timely email delivery. Developed proof-of-concept features to evaluate integrations and improve user experience.

Byte Lab | *Next.js, TypeScript, TailwindCSS, Zustand, Convex, Web APIs*   GitHub | Live
- **Designed and developed** a real-time collaborative code editor from scratch, supporting live code editing, execution, and syntax highlighting across users.
- **Integrated** remote code execution via the **Piston API** with real-time error feedback and shared state synchronization, improving collaboration efficiency by **40%**.
- **Implemented** secure authentication and user isolation using **Clerk** and **Convex**, ensuring safe multi-user access for **300+** users.

Achievements

- Solved **700+** Data Structures and Algorithms problems across platforms including **Leetcode** and **GeeksForGeeks**, strengthening problem-solving skills and algorithmic thinking.
- Received the **State Scholarship for Technical Education** for academic excellence and consistent performance during the Bachelor of Technology program.