

SIDDHARTH MOVALIYA

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SUMMARY

Graduate CS student at Iowa State University specializing in software engineering, web development, and cloud deployment. Experienced in building scalable applications with TypeScript, React/Next.js, PostgreSQL, and AWS. Strong background in object-oriented programming, agile teamwork, and designing innovative solutions to support research and data-driven systems.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL | **Frontend:** React, Next.js, Tailwind, Zod | **Backend:** Node.js, Prisma, PostgreSQL, REST APIs | **DevOps:** Docker, Kubernetes, AWS (EC2, S3, RDS, ECS, EKS), Google Cloud Console, GitHub Actions | **Other:** Git, Linux, Agile/Scrum

EDUCATION

Iowa State University – Ames, IA

Master of Science, Computer Science | GPA - 4.0 (current) | Jan 2025 – Dec 2026 (Expected)

Vishwakarma Government Engineering College (VGEC) – Chandkheda, India

Bachelor of Engineering, Electronics & Communication | GPA - 8.04/10.0 | Aug 2020 – Jun 2024

EXPERIENCE

Founding Engineer – CoinHarbour

Crypto Algorithmic Trading Marketplace | May 2024 – Oct 2024

- Engineered and deployed a **DeFi trading platform** supporting **100+ early users** using **ReactJS**.
- Connected **backend APIs** with **React.js frontend**, delivering **10+** production-ready modules.
- Integrated **MetaMask authentication** and **built a workflow** to classify **1000+** Ethereum **smart contract** transactions daily.
- Engineered AWS container orchestration**, resolving Docker container crashes and increasing platform uptime from **70% → 99%+**.
- Implemented secure deposit/withdrawal flows** with smart contract validation, safeguarding **100%** of user funds during early-stage testing.

Team Lead – Shubham Ventures

Investment portfolio tracker | Jan 2024 – Apr 2024

- Built a portfolio tracker with **Next.js** and optimized **SSR** for **~40% faster load times**.
- Integrated **decentralized storage (Sia)** to improve data security and reliability.
- Deployed application on Kamal** with **Dockerized** services and **GitHub Actions**, enabling reliable cloud hosting.
- Delivered **MVP** in **under 8 weeks**, enabling early user testing and feedback ahead of schedule.

PROJECTS & ACHIEVEMENTS

C-to-Java Assembly Compiler (Academic Project)

- Built a **compiler** in **Python** that translates **C programs into Java assembly** as part of graduate Compiler Design coursework.
- Implemented lexical analysis, parsing, and code generation phases with modular **OOP** design.
- Applied **software engineering practices** for extensibility and testing, ensuring correctness across diverse inputs.

Spotify Dashboard (Full-Stack Web App)

- Built a **MERN-stack** Spotify dashboard app with **ReactJS** and **Chart.js** for personalized music insights.