Sparsh Hurkat

Full Stack / Software Engineer

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EDUCATION

Carnegie Mellon University, Heinz College, Pittsburgh, PA

Master of **Information Systems Management**   Expected Dec 2026

Coursework: OOP in JAVA, Database Management, Org Design & Implementation, Gen AI Lab, Stats for IT Managers.

Vellore Institute of Technology, Vellore, India

Bachelor of Technology in **Electronics & Communication Engineering**, **GPA:** 3.74/4   May 2022

Coursework: Data Structures & Algorithms, Artificial Intelligence with Python, Advanced Java Programming.

SKILLS

Languages & Tools: Java, JavaScript, Python, SST, MySQL, HTML, CSS, Git, AWS

Libraries & Frameworks: React.js, Next.js, Node.js, LangChain, PyTorch

EXPERIENCE

MoneyView (Fintech), Bangalore, India   Mar 2022 – Jul 2025

Software Development Engineer

- **System Optimization & Cloud Engineering:** Cut user registration time by 5 minutes by modifying API's, Lambda functions, caching strategies, and DynamoDB queries with SST.dev and TypeScript on AWS.
- **Web Performance & Scalability:** Migrated the main website and CMS to Next.js and enhanced backend performance with Node.js and MongoDB, accelerating page loads, improving SEO, and minimizing CMS maintenance overhead.
- **Platform Development & Automation:** Led the development and migration to an in-house VideoKYC portal, eliminating external vendor dependency and quadrupling customer verification capacity at minimal incremental cost.
- **Product Ownership & Management:** Doubled agent capacity and increased monthly call volume by 20% by engineering and managing a call management portal to streamline company-customer interactions.
- **Product Development & Launch:** Launched a full-stack solution for partner vendors to manage customer transactions via the buy-now-pay-later option, a new product line that generated ~$1.5M in revenue within its first year.
- **Frontend Development & UX Enhancement:** Redesigned UI with a standardized design system and centralized component library, boosting mobile page performance score by 40%.

Them Consulting, Mumbai, India   May 2021 – Jun 2021

Experience Design Engineer (XDE) Intern

- **Product Design & UX Strategy:** Surged user acquisition by 15% by prototyping an interactive wedding planning platform.
- **User Research & Interaction Design:** Optimized platform usability and workflows by creating wireframes and conducting usability tests in collaboration with cross-functional teams.

PROJECTS

Multi-Agent RAG Developer Assistant   Ongoing

- Creating a full stack multi-agent RAG system using Next.js, LangChain and a vector DB to aggregate GitHub PRs, documentation, and related resources, generating structured, context-rich summaries to automate developer workflows.

LLM-Powered Interactive Portfolio – github.com/sparsh-hurkat/spot   Jul 2024

- Built an LLM-powered chatbot using Next.js, LangChain RAG, and a vector database, dynamically aggregating my personal data as context for more relevant and interactive AI responses.
- Engineered efficient prompt pipelines, reducing token usage by 65% and enhancing response speed and maintainability.