Sparsh Hurkat

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EDUCATION

Carnegie Mellon University, Heinz College, Pittsburgh, PA — Expected December 2026
Master of **Information Systems Management**

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

SKILLS

Languages & Tools: JavaScript/TypeScript, Java, Python, HTML, CSS, SQL/NoSQL, Git, AWS
Libraries & Frameworks: React.js, Next.js, React-Native, Figma, Node.js, Tanstack, SpringBoot, LangChain

EXPERIENCE

MoneyView (Fintech), Bangalore, India
  Software Engineer - 2 — October 2024 – July 2025

- **Web Performance & Scalability:** Improved Core Web Vitals and raised Lighthouse performance scores to 90+ by migrating the core product to Next.js, introducing SSR, and implementing component-level caching
- **Platform Development & Automation:** Built a real-time, WebSocket-based video verification portal to replace a third-party vendor, increasing verification throughput 4× while reducing operational costs.

Software Engineer - 1 — March 2022 – September 2024

- **Performance & Architecture Optimization:** Reduced JS bundle size by 35% in a fragmented legacy UI by building a React/TypeScript component library with a standardized design system
- **Product Development & Launch:** Delivered a full-stack partner platform from concept to production to enable vendor transaction management, a new product line that generated ~$1.5M in first-year revenue.
- **Product Ownership & Management:** Doubled agent capacity and increased monthly call volume by 20% by building and managing a call management portal to streamline company-customer interactions

Them Consulting, Mumbai, India
Experience Design Engineer (XDE) Intern — May 2021 – June 2021

- **Product Design & UX Strategy:** Defined key user journeys and prototyped an interactive wedding planning platform, resolving major usability pain points uncovered in early research
- **User Research & Interaction Design:** Optimized platform usability and workflows by creating wireframes and conducting usability tests in collaboration with cross-functional teams

PROJECTS

AI-Driven Product Visualization System — November 2025

- Generated product images from customer reviews using LLM-based feature extraction and multi-model diffusion systems
- Built an agentic workflow automating data collection, text analysis, prompt generation, and image synthesis

Gamified retail shopping journey | HackCMU 2025 – github.com/sparsh-hurkat/grocery — September 2025

- Boosted engagement via a Pac-Man–style game, mapping store aisles to walls and user shopping list items to pellets
- Integrated indoor location tracking using sensors instead of GPS to monitor aisle movement

RAG-powered Interactive Portfolio – github.com/sparsh-hurkat/spot — July 2024

- Improved user interactivity by incorporating an LLM-powered chatbot using Next.js, LangChain RAG, and a vectorDB
- Engineered efficient prompt pipelines, reducing token usage by 65% and enhancing response speed and maintainability

HONOURS & AWARDS

- Awarded the **William W. and Ruth F. Cooper Fellowship** for my academic success and professional accomplishments