

Sneha Hassan

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EDUCATION

Carnegie Mellon University

Master of Science in Engineering & Technology Innovation Management (GPA: **3.77/4**)

Graduated: **Dec 2025**

Pittsburgh, PA

- Courses Taken: Data Science, Strategy for Innovation, Finance, Applied Machine Learning, Product Management Essentials

APJ Abdul Kalam Technological University

Bachelor of Technology in Computer Science (GPA: **3.94/4**)

Graduated: **May 2023**

Kerala, India

- Courses Taken: Java, Database Management System, Industrial Economics, Sustainable Engineering, Design and Engineering

SKILLS

AI & ML: LLM Fine-tuning, Transfer Learning, PyTorch, TensorFlow, LangChain, LLM Orchestration, OpenCV, NLP, Signal Processing

Product: Product Discovery, User Research (JTBD), PRDs, MVP Definition, Roadmap Prioritization, A/B Testing, Metrics & OKRs

Backend & Cloud: Python, Java, RESTful APIs, Microservices, AWS, GCP, Firebase, Docker, CI/CD, Event-Driven Architecture

Data & Frontend: SQL (PostgreSQL), MongoDB, Redis, Query Optimization, React, React Native, TypeScript, Figma, Jira, Git, Tableau

WORK EXPERIENCE

Carnegie Mellon University

Feb 2026 - Present

Graduate Researcher - GenAI & Bio-Imaging

Pittsburgh, PA

- Built AI-enabled LLMs for Cryo-Electron Tomography using PyTorch and transfer learning, automating cellular annotation that previously required 8 hours of manual labeling per dataset
- Optimized LLM inference pipelines via batch processing and caching, reducing per-sample processing time from 45s to 12s (3.7x throughput improvement)

Carnegie Mellon School of Computer Science

Aug 2025 – Dec 2025

Teaching Assistant - Product Management Essentials

Pittsburgh, US

- Designed PM curriculum covering customer discovery, JTBD frameworks, and roadmap prioritization; led 2 workshops on AI-enabled product discovery using LLMs and prompt engineering
- Mentored 15 students through full product lifecycles, achieving 95% successful course execution outcomes

Telvue Corporation (Broadcast Automation)

May 2025 – Aug 2025

Product Manager Intern

Mt.Laurel, NJ

- Reported directly to CEO; owned product vision, roadmap prioritization, and execution as PM for a 12-member team -- driving requirements from discovery through delivery
- Shipped event-driven push notification system using Firebase microservices and pub/sub triggers, increasing mobile user engagement by 40% across 13K+ users
- Led competitive analysis across 6+ automation tools, surfacing 3 feature gaps that directly shaped roadmap; defined SQL-driven success metrics presented to leadership

Ather Energy Ltd. (EV Scooter Company)

Oct 2023 – Nov 2024

Application Developer & Product Owner

Bangalore, India

- Owned discovery and delivery of AI-enabled pothole detection -- translated rider pain points into product requirements, achieved 92% ML model accuracy, drove 35% safety-feature adoption growth
- Architected B2B fleet monitoring dashboard with real-time IoT telemetry (GPS, remote immobilizer, diagnostics) using React and Firebase, adopted by 3 enterprise clients managing 200+ vehicles
- Engineered full-stack PWA for carbon-footprint tracking serving 50K+ DAU; owned cross-team test automation platform raising coverage from 32% to 78%, cutting QA cycle time by 45%

Ather Energy Ltd.

Feb 2023 - Oct 2023

Software and Product Developer Intern

Bangalore, India

- Built 6 RESTful APIs in Spring Boot for the Ather app (100K+ users), cutting location-search latency by 40% with indexed queries and Redis caching; led feature from persona definition to API release

PROJECTS & AWARDS

STEM Toy Robot- Sponsored by Carnegie Mellon University

Jan 2025-Aug 2025

- Steered a multifaceted analysis encompassing strategic operation analysis, market dynamics, financial projections, and business viability for Zippy (STEM-focused toy robot initiative), resulting in actionable insights that significantly enhanced the project's strategic direction

RecoVR- Assistive Technology using VR (Founder and Product Owner - Incubated by CMU)

Oct 2024- Present

- Customer Discovery: Conducted interviews with 6+ healthcare providers to define the MVP for a VR-based rehabilitation platform
- Product Validation: Led a 4-person engineering team to develop a prototype that demonstrated a **40% improvement in patient fitness** metrics.

Socratic LLM for Pedagogy | Product Owner

Oct 2025 – Feb 2026

- **User Retention:** Developed an LLM using **Transfer Learning** to provide heuristic hints rather than full solutions, specifically aimed at improving student retention.
- **Quality Control:** Utilized NLP metrics to eliminate "answer-dumping," ensuring high-quality, steerable instructional feedback.

United Nations Millennium Fellow: Led 150-student team to research *SDG 8: Decent work and Economic Growth*

Aug 2022 - July 2023