

Sneha Hassan

snehahassan9970@gmail.com | +1 412-728-4641 | www.linkedin.com/in/sneha-hassan | [portfolio](#) | [github](#) | Pennsylvania, USA

EDUCATION

Carnegie Mellon University

Master of Science in Engineering & Technology Innovation Management | Software and Data Focus (GPA: 3.77/4)

Jan 2025 – Dec 2025

Pittsburgh, PA

APJ Abdul Kalam Technological University

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

Aug 2019 – May 2023

Kerala, India

EXPERIENCE

Ather Energy Ltd. (EV Scooter Company)

Oct 2023 – Nov 2024

Software Developer

Bangalore, India

- Served as the primary technical interface for 3 enterprise clients on a B2B fleet monitoring platform, translating complex IoT telemetry requirements (GPS, remote immobilizer, diagnostics) into delivered product using React and Firebase; managed onboarding, feedback cycles, and feature iteration directly with client teams managing 200+ vehicles
- Engineered and shipped a full-stack PWA using Spring Boot (Java) and React Native for carbon-footprint tracking, serving 50K+ DAU and reducing end-to-end tracking latency by 25%
- Translated rider pain points into technical product requirements for an ML pothole detection feature, collaborating across product, ML, and engineering to ship a 92% accuracy model to 50,000 daily users; drove 35% safety-feature adoption growth
- Built cross-team test automation platform in Java, raising coverage from 32% to 78% and cutting QA cycle time by 45% across 4 engineering squads; streamlined 12 legacy Firebase Cloud Functions reducing API response time by 20%

Ather Energy Ltd.

Feb 2023 - Oct 2023

Software Developer Intern

Bangalore, India

- Designed, built, and documented 6 RESTful APIs in Spring Boot for the Ather app (100K+ users), enabling the mobile team to independently integrate a favorite-locations feature; reduced location-search latency 40% through indexed queries and Redis caching
- Led a feature end to end from persona definition through API design and production release; built a full-stack campaign PWA (React and Java) driving 25K+ sign-ups across 10+ cities in the first month

Telvue Corporation

May 2025 – Aug 2025

Software Developer Intern

Mt.Laurel, NJ

- Reported directly to CEO; served as the technical and product interface between leadership, engineering, design, and mobile teams, translating business requirements into delivered features and presenting SQL-driven success metrics in weekly reviews
- Built and documented an event-driven push notification system (Firebase Admin SDK, pub/sub triggers, retry logic) increasing mobile engagement 40% across 13K+ users; authored integration docs enabling mobile team to self-serve without engineering support

Carnegie Mellon School of Computer Science

Aug 2025 – Dec 2025

Teaching Assistant, Product Management Essentials

Pittsburgh, PA

- Designed and delivered 2 hands-on workshops on AI-driven product discovery using LLMs and prompt engineering; translated complex technical concepts for 20+ students and mentored 15 through full product lifecycles with 95% successful course outcomes

Carnegie Mellon University

Feb 2026 – Present

Graduate Researcher (GenAI & Bio-Imaging)

Pittsburgh, PA

- Built a custom 8B-parameter LLM for Cryo-Electron Tomography; authored runbooks enabling research team adoption without engineering support and optimized inference from 45s to 12s per sample through batch processing and caching

SKILLS

Frontend: React.js, TypeScript, JavaScript, Next.js, React Native, HTML/CSS, Redux, Context API

Backend & APIs: Python, Node.js, Java (Spring Boot), RESTful APIs, GraphQL, Microservices, Firebase, Flask

AI & ML: LLM Fine-tuning, Transfer Learning, PyTorch, TensorFlow, LangChain, OpenCV, NLP, RAG, Claude, Codex

Cloud & DevOps: AWS, GCP, Firebase Cloud Functions, Docker, CI/CD, Git, Postman, Linux

Data: SQL (PostgreSQL), MongoDB, Redis, Schema Design, Query Optimization, Data Pipelines

Customer-Facing Technical: API Integration, Technical Documentation, Demo Building, Stakeholder Communication, Workshop Facilitation

PROJECTS

Vending Analytics

Aug 2025 - Dec 2025

Solutions Consultant - Sheetz

Pittsburgh, PA

- Engineered a CV pipeline (Python, OpenCV, TensorFlow) detecting empty vending slots and built a React dashboard serving as the customer-facing interface for operations teams
- Demoed to Sheetz stakeholders and authored a technical explainer translating model outputs for non-technical operators

Socratic LLM for Technical Pedagogy

Oct 2025- Feb 2026

- Fine-tuned a foundation LLM with NLP guardrails delivering Socratic hints over direct answers; built full-stack app (React and Flask) with under 2s latency in a 30-user pilot; wrote technical documentation translating model behavior for non-ML collaborators

RecoVR- Assistive Technology using VR

Oct 2023- Present

Founder & Software Engineer- Incubated by CMU

Pittsburgh, PA

- Conducted discovery interviews with 6+ healthcare providers to define the MVP; led 4-person engineering team to prototype with 40% improvement in patient fitness outcomes; wrote architecture documentation enabling onboarding of new contributors

LEADERSHIP & AWARDS

United Nations Millennium Fellow - Led 150 global fellows for community-impact work (2022–2023)