

Harsh Maheshwari

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EDUCATION

Pennsylvania State University

State College, PA

B.S. in Computer Science; B.S. in Computational Mathematics

Aug 2022 – May 2026

GPA: 3.8/4.0

EXPERIENCE

GenAI Technical Advisor Intern

Jun 2025 – Present

Scale AI

San Francisco, CA

- Prompt-engineered frontier **LLMs**; wrote 150+ tests (reasoning, tool-use, safety, retrieval); fixes cut jailbreaks/hallucinations by **20–30%**
- Systematically tested **LLM tool-calling strategies**; rewrote instructions and examples, improving model's adherence to complex instructions by **12%** and decreasing tool errors by **10%**.

Software Engineer

Aug 2025 – Present

SIGNUM

State College, PA

- Designed and developed a **react-native** app; Migrated backend services on **AWS** increasing the security and efficiency by **20%**.
- Engineered and launched **geofencing and wearable event processing features**, increasing caregiver response time to critical events by **25%** and contributing to enhanced patient safety and well-being..

Chief Technical Officer

Sep 2023 – Feb 2025

Marble

State College, PA

- Launched an AI-driven mental-health platform; led a **Next.js/React/TypeScript** web MVP with **Node.js** APIs and **Flask** microservices integrating **AWS, Firebase, OpenAI, and ElevenLabs**.
- Shipped MVP in under **4 weeks** (team of **4**), achieved **50+** downloads in week 1, incorporated feedback from **300+** user interviews, and secured **\$7.5K** in awards.

Software Engineering Intern

May 2024 – Aug 2024

Penn State College of Medicine

State College, PA

- Developed a cross-platform **React Native** clinical-support app with **Firebase** synchronization and role-based access; coordinated **20+** beta tests and shipped on time.
- Collaborated in an agile team of **5**; delivered reusable UI components and analytics aligned with clinician workflows.

Software Engineering Intern

Jan 2024 – Apr 2024

World Hope

State College, PA

- Architected a **Python RAG** backend with **MongoDB** enabling fast retrieval and AI Q&A for caseworkers; designed for **1,000+** field users serving **100,000+** beneficiaries.

PROJECTS

Zenny.ai | AWS, Python, LangChain, Vector DB, Airweave API

2024 – Present

- Predictive execution co-pilot for **Slack/Teams** that connects to **Jira, Slack, OKR** platforms, and wikis to detect misalignment and risks early; Created a working **MVP** within **1 month**
- **Impact:** earlier blocker detection; managers save approximately **4 hours/week** on status updates.

Nebula | Flask, HTML/CSS/JS, CNN, VTK, NumPy, TensorFlow

Oct 2023

- Built tumor and Alzheimer's classifiers on **300+ DICOM** CTs with **3D** visualization via **VTK**; achieved accuracies up to **94%** and **80%**.
- Won **1st** place in Generative AI category.

SKILLS

- **Languages:** Java, Python, TypeScript/JavaScript, C/C++, Kotlin, Dart, R, SQL, HTML/CSS, Bash, Verilog
- **Frameworks/Tools:** React, React Native, Next.js, Node.js, Flask, TensorFlow, Pandas, NumPy, MongoDB, Firebase, AWS, Azure, Git, Linux
- **Awards:** President Walker Award; President Sparks Award