

HARSH GUPTA

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EDUCATION

Cornell University, College of Engineering
Master in Engineering Management

The Pennsylvania State University, College of Engineering
Bachelor in Computer Science

RELEVANT EXPERIENCE

Ernst & Young L.L.P.

August 2022 – Present

Senior Technology Consultant/ Solutions Engineer

- **Led technical discovery and delivered compelling PoCs via JavaScript and Python Flask solutions** enabling Tier 1 financial institutions to analyze **2M+ records across 50+ requirements**, accelerating cloud modernization decisions and **deal cycles by 30%**.
- Architected and demonstrated scalable data pipelines with **Azure Data Factory and Blob Storage in pre-sales engagements** to provide analytics capabilities and optimize modernization strategies.
- Integrated **ChatGPT API and LLM Models**, optimizing for **large token sizes and unstructured data**, delivering compelling **value proposition** through real-time Q&A and **boosting client engagement by 30%**.
- Refined **RESTful APIs with Postman**, ensuring seamless integration across frontend, backend, and APIs & reducing defects by 20%.
- Partnered with C-level executives to standardize architecture docs in **Notion**, recommended process improvements, and drive adoption of **Azure DevOps, and Virtual Machines** via **Agile delivery**.

OpenVessel L.L.C.

March 2020 – April 2025

Co-Founder & Chief Technology Officer

- Led an end-to-end **AI radiology startup** from prototype to production, scaling **50,000+ CT scans** and **improving detection by ~83%**.
- Built enterprise sales pipeline and **GTM strategy** targeting hospital systems, conducted **100+ radiologist interviews** for product market fit, **raised ~\$1M in funding**, and **led a cross-functional team of 26**.
- Deployed Flask app for image ingestion, preprocessing, and inference, executing open-source 3D U-Net models on **GPU EC2 instances**.
- Implemented **CI/CD workflows using Docker** and automated **data integration pipelines with n8n** for continuous integration, troubleshooting, and rapid prototyping.
- Translated clinical feedback to product roadmap and technical specs, driving **adoption across 7 hospitals** with diverse infrastructure.

Quantiphi Inc., Google Gold Partner

January 2022 – May 2022

Software Engineering Intern

- Partnered with **Google Professional Services** to deploy a full stack end-to-end **DialogflowCX-based contact center AI solution** for enterprise clients, **boosting customer support experience by 27%** and aligning with customer needs.
- Designed **35+ Natural Language User intent flows** with **30+ tailored training phrases**, ensuring accurate, and engaging interactions.
- Created wireframes and prototypes with Figma and integrated **Angular with DialogflowCX via REST APIs** and Postman-tested endpoints, **enhancing customer satisfaction by 48%**.
- Authored comprehensive documentation to streamline knowledge transfer to business teams and support onboarding.

Illumina Inc.

June 2021 – December 2021

Software Engineering Intern

- Developed a **linear regression model** to predict **Jenkins pipeline execution times**, **saving 2 hours of daily** development costs.
- Constructed a **Python Streamlit dashboard** showcasing Jenkins build data & running prediction model at 80% accuracy.
- Parsed **2000+ Jenkins log lines** with stack trace search algorithm to **automate error detection with 90% accuracy**.
- Presented the solution to the senior leadership and developers to drive further development and adoption.

Apoio L.L.C.

January 2021 – August 2021

Lead Technical Product Manager

2X Winner of IBM Watson Advantage with \$4,000 funding | **Microsoft Imagine Cup Nominee**

- Directed a **JavaScript React dashboard for mental health clinicians** to organize intake data from 100+ patient self-evaluation forms.
- Trained **Microsoft Azure Form Recognizer** for training medical data from 100+ forms **with accuracy of over 90%**.
- Collaborated with an 8-person team to deploy the app on Heroku and train **IBM Watson machine learning models with 70% efficacy**.
- Secured runner-up position in the **Penn State Nittany AI Challenge** by delivering an impactful AI-driven mental health solution.

TECHNICAL SKILLS

Programming Languages: Python (Pandas, Flask, Streamlit), C/C++, Typescript, JavaScript (React Native, React, NodeJS), HTML/CSS

Operating Systems: MacOS, Unix, Linux, Windows

Database Management Systems: SQL (MySQL, PostgreSQL), Snowflake, Databricks, Basic in NoSQL (MongoDB & BigQuery)

Software/Tools: AWS (EC2, S3, Glue), Azure, Asana, n8n, Firebase, GCP (Kubernetes), Postman, Git/GitHub, Jenkins, Docker, Command Line, Terminal, Jira, Confluence, Figma, RepIt, Tableau, Alteryx, Microsoft Office (Word, PowerPoint & Excel)