

Pranav Ramesh

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EDUCATION

Harvard University

Aug. 2022 – May 2026

A.B. in Computer Science, A.B. in Statistics, Concurrent S.M. in Computer Science

Cambridge, MA

- **Undergraduate Coursework:** Artificial Intelligence, Computing Hardware, Data Structures & Algorithms, Discrete Mathematics, Linear Algebra & Real Analysis, Probability, Reinforcement Learning, Systems Programming & Machine Organization
- **Graduate Coursework:** Advanced Data Science, Formal Security Methods, Human-Computer Interaction, AI for Social Good
- **Extracurricular Activities & Leadership:** 2022 Coca-Cola Scholar, 2024 Neo Scholar, Harvard Computer Society, Harvard Tech for Social Good (Senior Software Engineer), Human Capital Venture Partner

EXPERIENCE

Software Engineering Intern

May 2024 – August 2024

Ramp

New York, NY

- Developed a multi-agent-chained generative AI tool to synthesize meeting preparation digests for account executives, saving 450 hours of work across the company weekly (Python, Flask, Sentry, Datadog).
- Created models to more effectively capture and enrich prospects, contributing to 100% increase in closed wins (SQL, Snowflake, DBT).
- Co-developed a native iOS in-app assistant to navigate users throughout the app using natural language, successfully ported over TinyLlama with quantization and palettization to iOS (Python, Swift, CoreMLTools).

Undergraduate AI Researcher

June 2023 – August 2023

Harvard Programming Languages Group

Cambridge, MA

- Improved theorem generation using decomposition and developed an LLM plugin to refine LLM-generated Coq proofs using verification under Professor Nada Amin (Python).
- Fine-tuned Seq2Seq Transformer LLM model to generate Coq tactics from previous tactics and desired goal to write proofs (Python, C++).

Computer Science Teaching Assistant

January 2023 - Present

Harvard University

Cambridge, MA

- Teaching Assistant for CS 32 Computational Thinking and Problem Solving under Michael Smith (Spring 2024).
- Teaching Assistant for CS 20 Discrete Mathematics under Dr. Rebecca Nesson (Spring 2023, 2024).

Senior Software Engineer (Contract)

January 2023 - May 2023

City of Boston

Cambridge, MA

- Led a team of 3 software engineers to create a full-stack web app to provide visualizations and insights regarding spending in the City of Boston (React, Next.js).
- Attracted 5,000+ visitors; led to an increase in citizen engagement by 30% compared to the prior engagement tools utilized by the city.

PROJECTS

Classiq | *Python, React, Next.js, PostgreSQL, Selenium*

August 2023 – Present

- Developed a full-stack Next.js web application for Harvard students to search for courses fast and efficiently.
- Webscraped 9000+ courses using Selenium. Implemented lightweight fuzzy-search and queried courses from an in-memory cache (avg 0.32 ms latency).
- Achieved product-market fit: 6000+ active users (more than 50% of Harvard students), 200k+ total page visits.

Donna | *Python, React, Pinecone*

April 2024

- Built AI legal deposition assistant that performs semantic search on deposition videos and compares verbal and written testimony. Won 3rd Place at MIT AGI House Hackathon

Synthesis | *Python, React, Pinecone*

February 2024

- Created Synthesis, a reimagined, AI-powered news aggregator that provides a personalized, unbiased view of aggregated topics in the news. Won Best AI Hack at Stanford TreeHacks Hackathon.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript/TypeScript, HTML/CSS, R, Java

Frameworks: React, Next.js, Node.js, Flask, FastAPI, Celery, Snowflake, DBT, Sentry, Datadog, Docker, AWS

Libraries: PyTorch, Pandas, NumPy, Matplotlib