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*

- **Selected Coursework:** Artificial Intelligence, Computing Hardware, Data Structures & Algorithms, Linear Algebra & Real Analysis, Probability, Systems Programming & Machine Organization
- **Extracurricular Activities & Leadership: 2022 Coca-Cola Scholar, 2024 Neo Scholar, Z Fellow,** 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 weekly across the company (Python, Flask, Sentry, Datadog).
- Created models to better capture and enrich prospects, contributing to a 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, increasing proof accuracy by 15%, and developed an LLM plugin to refine Coq proofs (Python).
- Fine-tuned Seq2Seq Transformer model, boosting proof generation efficiency by 30% (Python, C++).

Senior Software Engineer (Contract) January 2023 - May 2023

City of Boston *Cambridge, MA*

- Led a team of 3 engineers to develop an expenditure analytics platform, increasing citizen engagement by 30% and attracting 5,000+ unique visitors in the first month (React, Next.js, Plot.ly).
- Implemented custom in-memory caching to cut data load times by 40% and enhanced real-time dashboard updates.

Senior Software Engineer (Contract) September 2022 - December 2022

OkaySo *Cambridge, MA*

- Built end-to-end real-time chat system with 0.5-second latency, driving a 300% increase in user retention and 200% increase in expert participation (Express.js, Node.js).
- Implemented a dynamic, fast frontend that improved user retention by 40% and reduced render times by 25% (React).

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 75% of Harvard students), **1M+ 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