Pranav Ramesh

860-597-8268 | pranavramesh@college.harvard.edu | linkedin.com/in/pranav-ramesh1 | github.com/pr28416

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, 2025 Neo Scholar, Z Fellow,** Harvard Computer Society, Harvard Tech for Social Good (Senior Software Engineer), Human Capital Venture Partner
- **GPA:** 3.88/4.0

EXPERIENCE

Software Engineering Intern, AI — June 2025 – August 2025
Citadel — *New York, NY*
- Interned on the Fundamental Equities AI team

Software Engineering, Applied AI (Contract) — December 2024 – February 2024
Coframe — *San Francisco, CA*
- Developed an agentic AI-powered landing page variant generation demo (Flask, LangGraph backend; React frontend).
- Presented to four enterprise banking companies, successfully converting initial calls into proof-of-concept engagements.

Software Engineering Intern, Outbound Automation Team — 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++).

PROJECTS

Pen AI | *Next.js, GPT-4o, GitHub OAuth, Serverless, AI Security* — January 2025
- Developed an AI-powered penetration testing platform for enterprise security teams
- Built a system end-to-end that runs AI-based penetration reporting at scale, performs advanced vulnerability detection, and suggests security "edits" in real time.

Supernova | *Next.js, Groq, OpenAI, Perplexity, Supabase, HeyGen, Runway ML, Cartesia* — February 2025
- Built an end-to-end AI infrastructure to generate fully personalized influencer-style video ads from a single product link.
- Automated the entire pipeline — AI agents perform market research, select an ideal influencer persona, script the ad, synthesize the voice with Cartesia, generate the avatar with HeyGen, and produce B-roll via Runway ML — all orchestrated in minutes.
- **Won 2nd Place Grand Prize at Stanford TreeHacks 2025**.

Rally AI | *Next.js, Python, Firecrawl, Perplexity, Supabase, Cartesia.ai, SyncLabs, Pexels* — September 2024
- Created the first fully compliant AI platform to generate personalized political ads featuring AI-driven candidate personas.
- Pipeline scrapes local news and economic data with Firecrawl + Perplexity, curates insights in Supabase, generates scripts in the candidate's voice with GPT4o-mini, produces voice narration via Cartesia, lip-syncs footage with SyncLabs, and overlays B-roll from Pexels.
- **Won 2nd Place Grand Prize & Best Design at PennApps 2024**.

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