Pranav Patnaik

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Computer science student at the University of Toronto. Founder, builder, and influencer with $400K+ in funding secured & 10k+ followers across social media platforms.

EXPERIENCE

University Lecturer — Sep. 2023 – April 2025
Prep101 — *Toronto, ON*
- Delivered lectures to students from the University of Western Ontario, University of Calgary
- Authored five **200+ pg. textbooks** on OOP, design patterns, and software architecture
- Achieved a 98.5% satisfaction rating across **400+** students

Founder & Executive Director — Sep. 2018 – Present
Vanakian Research — *Toronto, ON*
- Leading research & development for community solutions; engineered 10+ industry-level products
- Secured **$80k** in funding across various ventures
- Awarded *Wolfram Research Award* for excellence in science

Director of Operations — June 2024 – Present
WaffleHacks
- Overseeing operations in WaffleHacks, an annual hackathon with **2000+** attendees each year
- Secured sponsors from NordVPN, WolframAlpha, and several others

PROJECTS

Mathema | *Next.js, Supabase, GPT-4 API, AWS Lambda, PostgreSQL* — Feb. 2025 – Present
- Built a full-stack math education platform dubbed the "LeetCode for math," releasing in September
- Secured **$50k** in funding and grew to a **3,000+** person waitlist
- Used AWS Lambda for scalable backend tasks such as adaptive grading and PDF generation

Bases | *LangChain, PySpark, React, AWS S3, Vercel* — Jan. 2025
- Analyzed sports highlights using LLMs and PySpark pipelines to extract structured insight from audio and video
- Grew a **200+** person waitlist and deployed MVP at trybases.com
- Stored and served annotated highlight clips via AWS S3; built full-stack app with LangChain and custom UI

MeetMidway | *Flutter, React Native, Flask, Google Maps API, Firebase* — Aug. 2024
- Developed a mobile app for friends to find central meetups based on travel time or distance
- Led a 20+ person team and shipped MVP during Google AI Hackathon
- Secured **$300k** worth of Google API credits; reached **20k+** views across social media

EDUCATION

University of Toronto — Toronto, ON
Bachelor of Computer Science, Major in Computer Science, Mathematical Sciences — *Sep. 2024 – Present*

ADDITIONAL

Social Media Influencer | *Instagram, YouTube, Personal Blog* — Jun. 2024 – Present
- Grew an audience of **7,000+** followers on Instagram by posting machine learning content, paper summaries, and more
- Created YouTube videos walking through ML concepts, architectures, and research intuitions
- Published detailed blog posts on personal website (pranavpatnaik.com) covering ML paper breakdowns and tutorials

TECHNICAL SKILLS

Languages: Python, SQL (PostgreSQL), R, Java, C/C++, JavaScript, HTML/CSS
ML & Data Science: PyTorch, scikit-learn, pandas, NumPy, Matplotlib, Seaborn, OpenCV, PySpark, LangChain
Frameworks: FastAPI, Flask, React, Node.js, Material-UI, JUnit, WordPress
Developer Tools: Git, Docker, Google Cloud Platform, AWS (Lambda, S3), VS Code, PyCharm, IntelliJ, TravisCI
Databases: PostgreSQL, Firebase, Supabase