

# Pranav Patnaik

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Computer science student at the University of Toronto.  
20k+ followers across social media platforms.

## EXPERIENCE

### Founder & Executive Director

Sep. 2022 – 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

### 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

### 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](https://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 **20,000+** 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](https://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