

# Nyan Prakash

New York City

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## Education

### Fractal Tech

Brooklyn, New York

Sept 2025 - December 2025

#### Software Engineering Fellowship

- **Description:** Built and shipped full-stack, AI-native applications through intensive, team-based engineering and real client externships.

### University of Virginia

Charlottesville, Virginia

August 2024 - May 2025

#### Bachelor of Science in Computer Science and Economics (Incomplete)

- **Relevant Coursework:** Data Structures and Algorithms, Calculus 3, Discrete Mathematics and Theory

## Skills

### Programming Languages & Frameworks:

Java, Python, JavaScript, C#, TypeScript, React, Node.js, FastAPI, Django, Express.js,

### Tools & Platforms

Unity, Blender, Excel, GCP, Raspberry Pi, Arduino, Docker, AWS

### Specializations

Full Stack, Mobile Development, Robotics, Machine Learning (TensorFlow, Keras, Scikit-learn)

## Experience

### The Outpost

Alexandria, Virginia

#### Software Engineering Intern

May 2025 - August 2025

- Created 10+ Python automations for productivity and proposal writing for account managers
- Developed a full stack application used by the IRS for technology scouting research
- Using RAG implemented a searchable vector database of over 50k technology startups

### Pacific Northwest National Laboratory

Richland, Washington

May 2024 - August 2024

#### Software Engineering Intern

- Developed a website for the Department of Energy to allocate funding to National Security Initiatives
- Decreased bundle size by 50% by implementing React code-splitting to optimize the user experience
- Implemented 10+ backend functions using Microsoft's .NET Framework

### AutoDog

Falls Church, Virginia

#### Founder

December 2023 - June 2024

- Developed a smart dog harness to boost efficiency of dog training using an Arduino

• Won 1st in Virginia and 3rd nationally in SkillsUSA Engineering Technology and Design

• Used Bluetooth Low Energy, radio communication and various sensors to create a working prototype

## Projects

### EcoCoin

Cambridge, Massachusetts

October 2024

#### Decentralized Trading Platform for Emission Allowances (React, FastAPI, Google Firebase)

- Implemented blockchain-based tokenization for emission allowances for the Harvard Hackathon
- Created a predictive algorithm for future carbon credit prices
- Developed stock trading and investing functionalities and a user-friendly web UI

### HealthScope

Baltimore, Maryland

September 2024

#### Geospatial AI-Driven Public Health Trends Analytics Platform (React, FastAPI, Pytorch)

- Designed a machine learning model to predict and visualize public health trends
- Built an interactive React-based dashboard for real-time data insights
- Improved accuracy by integrating 9+ large-scale public health datasets

### DeepGuard

Charlottesville, Virginia

March 2024

#### Multi-modal AI Deepfake Detection System (Python, OpenAI, Google Chirp)

- Developed a multi-modal AI model for deepfake detection in text, voice, and video for the UVA hackathon.
- Built a FastAPI-based backend to handle real-time deepfake detection requests

## Activities & Awards

### Global Research and Consulting

Learning Finance and helping local non-profit with consulting needs

February 2025 -June 2025

HackNYU Won 2nd place in Best Fintech Hack at NYU for building an AI menu engineering

February 2025

Johns Hopkins University Hackathon Won 3rd place in Best Use of Data at Hophacks for building Healthscope

October 2024