

# Nyan Prakash

New York City

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## Education

### Fractal Tech

#### Software Engineering Fellowship

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

**Brooklyn, New York**

Sept 2025 - December 2025

### University of Virginia

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

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

**Charlottesville, Virginia**

August 2024 - May 2025

## 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

#### Software Engineering Intern

- Created 10+ Python automatons 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

**Alexandria, Virginia**

May 2025 - August 2025

### Pacific Northwest National Laboratory

#### 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

**Richland, Washington**

May 2024 - August 2024

### AutoDog

#### Founder

- 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

**Falls Church, Virginia**

December 2023 - June 2024

## Projects

### EcoCoin

#### 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

**Cambridge, Massachusetts**

October 2024

### HealthScope

#### 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

**Baltimore, Maryland**

September 2024

### DeepGuard

#### 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

**Charlottesville, Virginia**

March 2024

## 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**