

Nyan Prakash

New York City

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Education

University of Virginia

Bachelor of Science in Computer Science and Economics

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

Charlottesville, Virginia

August 2024 - May 2025

Northern Virginia Community College

Associate of Science in Engineering

- **GPA:** 3.9 of 4.0

Annandale, Virginia

August 2023 - May 2024

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 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

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)

Cambridge, Massachusetts

October 2024

- Implemented blockchain-based tokenization for emission allowances

- Created a predictive algorithm for future carbon credit prices

- Developed stock trading and investing functionalities and a user-friendly web UI

HealthScope

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

Baltimore, Maryland

September 2024

- 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

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

Charlottesville, Virginia

March 2024

- Developed a multi-modal AI model for deepfake detection in text, voice, and video.

- 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