

Nyan Prakash

Washington D.C.

☎ (315)-882-6569 ✉ nyanjprakash@gmail.com 🏠 nyanprakash.com 📱 Nyan-Prakash 🌐 nyan-prakash

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

Expected May 2027

Northern Virginia Community College

Associate of Science in Engineering

- **GPA:** 3.9 of 4.0

Anandale, VA

August 2023 - May 2024

Skills

Programming Languages & Frameworks: Java, Python, JavaScript, C#, TypeScript, React, Node.js, FastAPI, Django, Express.js,
Tools & Platforms Unity Game Engine, Blender, Excel, and Google Cloud Platform, Raspberry PI, Arduino, AWS
Specializations Machine Learning (TensorFlow, Keras, Scikit-learn), Mobile Development, Robotics

Experience

UVA Link Lab

Undergraduate Research Assistant

- Conducted data-driven trials to optimize urban roads for bike and e-scooter safety and accessibility
- Developing a simulation model for bike and e-scooter using Unity and C# controlled by a real-world bike
- Evaluating existing micro-mobility studies to refine current research objectives

Charlottesville, Virginia

November 2024 - Present

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

- Developing 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.
- 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.
- 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 -Present

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