

# Pranaav Venkatasubramanian

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## Education

### New York Institute of Technology

Bachelor of Science in Computer Science, Minor in Mathematics (GPA: 3.96)

May 2025

Old Westbury, New York

## Experience

### Entrepreneurship and Technology Innovation Center

Nov 2022 – Present

ETIC Project Manager (Promoted from ETIC Intern)

Old Westbury, New York

- Part of a team in developing ETIC's first-ever AI system, modeled to provide solutions to researchers pursuing and analyzing medical research and analytics to further genome study.
- Contracted by NASA's Technology Transfer Office to develop and deliver 10 high-end patented prototypes
- Project managed 3 to 5 multi-disciplinary engineers to create patent prototypes. Responsible for setting timelines, delegating tasks, monitoring project progress, coordinating meetings, and reporting to NASA team members.
- Designed software solutions for 20+ projects across diverse industries including healthcare, energy, aerospace, manufacturing, education, robotics, and AI.

### Apple

Jan 2024 – Dec 2024

Pathways Alliance Pathfinder

Remote

- Selected to participate in an exclusive program (2 candidates per university) that offers unparalleled access to esteemed industry experts within the Apple technology sector, enhancing my skills and insights crucial for contributing effectively to your team.

## Skills

**Languages:** Python | Java | C# | C++ | C | HTML | CSS | TailwindCSS | JavaScript | TypeScript | SQL | Git

**Technologies:** Linux | React | ASP.NET | Blazor | Azure | Firebase | TensorFlow | PyTorch | Pyodbc | MYSQL | MSSQL

## Projects

### AttendEase | React, Firebase, TailwindCSS, Swift.js

- Piloted the development of an attendance management system that utilizes NFC technology to check students into the course. Designed an attendance dashboard that shows instructors' students' attendance statistics, creating high-end reports notifying the instructor of absences and tardies.
- iOS and Android apps were also developed to emit an NFC signal from the phone which they can scan to let students check into their lectures for ease of usability.

### Gamified Silk Screen Cleaner | Python, Raspberry Pi, Linux

- Placed 1st at the NYSID (New York State Industries for the Disabled) competition by providing a high-tech solution for cleaning plastisol ink from screen printing equipment, designed to assist workers with disabilities. The solution improved workplace efficiency by 40%.
- Video: <https://www.youtube.com/watch?v=x-vOqySdoQI>

### Dragonfly Drone Software | Python, Tensorflow, SQL, Pyodbc

- Developed and optimized the Dragonfly drone software system using Python, integrating AI-powered image recognition and geolocation algorithms to enable autonomous navigation and precise delivery.
- Engineered a comprehensive image database and recall mechanism, allowing the drone to accurately identify, store, and revisit specific locations. The use of artificial intelligence enhances the drone's ability to deliver packages, such as medicine or seeds, with high accuracy and reliability.

### XpressAssist | ASP.NET, C#, HTML, CSS, JavaScript, MSSQL

- Developed a web-based software solution that features a web-based clocking-in system for employees to view their workstation daily, with mobile notifications for managers and support workers.
- Employees can also request assistance or notify about breaks, while managers receive weekly reports and use a data prediction model to gauge task engagement and potential communication challenges.

## Awards and Certifications

**Awards:** Presidential Honor's List (All Semesters), Presidential Scholarship, NYSID CREATE Competition (2024)

**Certifications:** Harvard CS50x Certification (2021), (ISC)<sup>2</sup> Hackathon (2023), NYIT SOURCE (2024), NYIT Math Day (2024), NASA Assistive Technologies Startup Summit, NASA T2X Certificate of Excellence