

# Ethan Thomas

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## EDUCATION

### Columbia University

*B.S. in Computer Science GPA: 4.157/4.0*

New York, NY

*Sep. 2022 – Oct. 2024*

## EXPERIENCE

### Florida Atlantic University

*Engineering Research Intern*

Boca Raton, FL

*Jun. 2023 – Aug. 2023*

- Secured funding from **NSF's Engineering Research Center for Smart Streetscapes (CS3)**.
- Conducted analysis of scooter data to classify riding surfaces for enhanced safety and asset management.
- Developed a **Raspberry Pi-based data collection system** with IMU, GPS, and speed sensors.
- Automated tasks using Systemd services, **bash scripts**, and **Python** IPC libraries.
- **Trained PyTorch and scikit-learn models**, achieving **90% classification accuracy**.
- Won “**Most Outstanding Presentation**” award for project results.

### Puberry Inc.

*Software Engineering Intern*

New York, NY

*Feb. 2023 – Jun. 2023*

- Developed a front-end application using the cross-platform Flutter framework.
- Worked with Google Firebase storage and auth for data retrieval and storage.

## EXPERIENCE

### Florida Atlantic University

*Engineering Research Intern*

Boca Raton, FL

*Jun. 2023 – Aug. 2023*

- Awarded “Most Outstanding Presentation” for E-Scooter Mobility Sensing Research Project.
- Developed a Raspberry-Pi based data collection system for electric scooters with IMU, GPS, and Speed sensing.
- Utilized machine learning to classify and predict road riding surface types based on collected data.

### Software Engineering Intern

Puberry

Feb 2023 - June 2023

*New York, NY*

- Developed a front-end application using the cross-platform Flutter framework.
- Worked with Google Firebase storage and auth for data retrieval and storage.

## SKILLS

### Programming Languages

Python, C, C++, SQL, Javascript, Typescript, Java, OCaml.

### Technical Skills

Git, Linux, Docker, Bash, LaTeX, HTML, CSS, Raspberry Pi, Virtual Machines.

### Libraries & Frameworks

React, NextJS, Flutter, PyTorch, Tensorflow, Selenium, Flask, Godot.

## PROJECTS

**ADI DevFest Hackathon Website.** Led DevFest 2024 website development (2024.devfestcu.com) using React, NextJS, and Javascript. Contributed to the 2023 DevFest website (2023.devfestcu.com).

**OpenAir-VPN.** Created a custom Linux VPN front-end for AirVPN provided configuration files, supporting OpenVPN, Wireguard, and a killswitch. Relies on Linux, Bash, and iptables firewall rules.

**Auto-YouTuber.** Created a tool that creates daily YouTube videos by scraping top posts from Reddit, compiling them into a full-length video, and uploading to YouTube autonomously. Uses Bash, Python, FFmpeg, and Docker.