







# Ethan Montgomery Thomas

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## Summary

Columbia University Computer Science student with research experience, graduating in October of 2024. Extensive experience with Linux, Python development, shell scripting, and React web development.

## Education

### Columbia University

Graduated October 16, 2024

Bachelor of Computer Science (B.S.)

4.157 GPA

Coursework: Artificial Intelligence, Data Structures, Algorithms, Databases, Networks, Operating Systems, Security

**Application Development Initiative (ADI)** - Organizer of DevFest (annual hackathon), Leader of ADI House

**Tau Beta Pi** (The Engineering National Honor Society) - Member of the New York Alpha Chapter

**Columbia Space Initiative (CSI)** - Member of 2022-2023 NASA Micro-g NEXt Competition team

## Experience

### Florida Atlantic University

June 2023 - Aug 2023

NSF REU Engineering Research Intern

Boca Raton, FL

- Awarded "Most Outstanding Presentation" for E-Scooter Mobility Sensing Research Project.
- Developed a Raspberry-Pi 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.

### Puberry Inc.

Feb 2023 - June 2023

Software Engineering Intern

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](https://2024.devfestcu.com)) using React, NextJS, and Javascript. Contributed to the 2023 DevFest website ([2023.devfestcu.com](https://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.