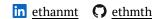
# **Ethan Montgomery Thomas**

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#### Education

#### **Columbia University**

Sep. 2022 - Oct. 2024

**Bachelor of Computer Science** 

New York, NY

GPA: 4.157/4.0

- Coursework Artificial Intelligence, Data Structures, Algorithms, Databases, Networks, Operating Systems, Security, Natural Language Processing
- 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

Jun. 2023 - Aug. 2023

**Engineering Research Intern** 

Boca Raton, FL

- Received the "Most Outstanding Presentation" award for E-Scooter Mobility Sensing Research Project.
- Engineered a Raspberry Pi-based data collection system for electric scooters, integrating IMU, GPS, and speed sensors.
- Applied machine learning techniques to classify and predict road surface types using collected data.

Puberry Inc.

Feb. 2023 – Jun. 2023

Software Engineering Intern

New York, NY

- Developed a **cross-platform front-end application** using the **Flutter framework**.
- Implemented data retrieval and storage solutions using **Google Firebase** for storage and authentication.

#### Skills

**Programming Languages** - Python, C, C++, SQL, Javascript, Typescript, Java, OCaml.

Technical Skills - Git, Linux, Docker, Bash, LaTeX, HTML, CSS, Raspberry Pi, Virtual Machines, CLI, UX/UI Design, API.

Libraries & Frameworks - React, NextJS, Node, Flutter, PyTorch, Tensorflow, Selenium, Flask, Godot, PostgreSQL.

**Soft Skills** - Analytical Problem Solving, Communication, Prototyping, Creative Thinking, Teamwork.

## **Projects**

#### **ADI DevFest Hackathon Website**

2024.devfestcu.com

Led DevFest 2024 website development (<u>2024.devfestcu.com</u>) using React, NextJS, and Javascript. Contributed to the 2023 DevFest website (<u>2023.devfestcu.com</u>).

Web Programming, Front-End, Back-End, Full-Stack, Cloud

## 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.

Linux, System Programming, Shell Scripting