

Ethan Thomas

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EDUCATION

Columbia University

Bachelor of Computer Science (B.S.) GPA: 4.157 GPA

New York, NY

– October 16, 2024

WORK EXPERIENCE

Florida Atlantic University

NSF REU Engineering Research Intern

Boca Raton, FL

June 2023 – August 2023

- 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.

Software Engineering Intern

New York, NY

February 2023 – June 2023

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

PROJECTS

ADI DevFest Hackathon Website | *React, NextJS, Javascript*

- Led the development of the **DevFest 2024 website** (2024.devfestcu.com).
- Contributed to the **2023 DevFest website** (2023.devfestcu.com).

OpenAir-VPN | *Linux, Bash, iptables*

- Developed a custom **Linux VPN front-end** for AirVPN configuration files, supporting **OpenVPN, Wireguard, and a killswitch**.
- Utilized **Linux, Bash scripting, and iptables** firewall rules.

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