

# 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*

- *Organizations: Application Development Initiative, Tau Beta Pi, Columbia Space Initiative*

## 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 interactive quizzes and a progress-tracking calendar for a **cross-platform puberty education app**.
- Contributed to the **Flutter front-end**, implementing responsive design and seamless user interactions.
- Connected the app to **Google Firebase** for secure data storage and user authentication.
- Contributed to the demo sprint, enabling a successful pilot test with students and teachers.
- Helped Puberry **improve health test scores by 61%**.

## PROJECTS

### DevFest Hackathon Website | *Next.js, React, UI Design, Project Management*

*2024.devfestcu.com*

- **Led a team** of five engineers to develop Columbia University's **DevFest 2024 website**.
- Designed a **Next.js** and **React** site styled as a comic book with interactive "page turning" features.
- Improved event registration by **100+ participants** compared to 2023 through clear, accessible information design.

### Pitch Wizard | *Python, Flask, HTML/CSS, JavaScript, jQuery, Docker, UI/UX Design*

*pitchwizard.lol*

- Developed a web app to **teach users how to identify baseball pitches**, like fastballs and curveballs.
- Created an **interactive lesson and quiz** using **Flask** for the back-end and Flask sessions for progress tracking.
- Designed and implemented the front-end UI with **HTML/CSS**, **JavaScript**, and **jQuery**.

### OpenAir-VPN | *Linux, Bash, Shell Scripting, Networking, CLI*

- Developed a **Linux command-line interface (CLI)** to manage Wireguard and OpenVPN connections.
- Implemented an iptables-based killswitch, startup/shutdown integration with Systemd, and optional LAN access.
- Published the project as **open-source** under the MIT license, prioritizing ease of use and community contributions.

## SKILLS

**Programming Languages:** Python, C, C++, SQL, JavaScript, TypeScript, Java, OCaml

**Technical Skills:** Git, Linux, Docker, Bash, LaTeX, HTML, CSS, Virtual Machines, UX/UI Design

**Libraries & Frameworks:** React, Next.js, Node.js, Flutter, PyTorch, Selenium, Flask, Godot, PostgreSQL

**Soft Skills:** Problem Solving, Communication, Prototyping, Creative Thinking, Teamwork, Leadership