

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