

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)**.
- 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**.
- Enhanced the **Flutter front-end** with responsive design and smooth user interactions.
- Integrated **Google Firebase** for secure data storage and user authentication.
- Contributed to Puberry's **61% improvement in health test scores**.

PROJECTS

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

2024.devfestcu.com

- Led a team** of five engineers to create Columbia University's **DevFest 2024 website**.
- Designed a **comic book-style Next.js/React site** with interactive "page turning" features.
- Boosted event registration **by 100+ participants** with clear, accessible design.

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

pitchwizard.lol

- Built a web app to teach users how to identify baseball pitches, like fastballs and curveballs.
- Developed **interactive lessons and quizzes** using **Flask** with per-user progress tracking.
- Designed the front-end UI with **HTML/CSS, JavaScript**, and **jQuery** for an engaging user experience.

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

- Created a **Linux CLI** to manage Wireguard and OpenVPN connections.
- Implemented an iptables-based killswitch, Systemd integration, and LAN access options.
- Released the project as **open-source** under the MIT license, emphasizing usability and community contributions.

Baseball Analytics Dashboard | React, R, RESTful, API

- Developed a **React web interface** for visualizing pitch data for the Georgetown University Baseball team.
- Integrated with an **R Plumber REST API** to display pitch trajectories and strike zone grids.
- Delivered an interactive tool to help coaches and players analyze pitching performance.

SKILLS

Programming Languages: Python, SQL, JavaScript, TypeScript, Go, C, C++, Java

Technical Skills: Git, Linux, Docker, Containerization, Bash, LaTeX, HTML, CSS, UX/UI Design, Database ORM

Libraries & Frameworks: React.js, Next.js, Node.js, Selenium, Flask, SQLAlchemy, PostgreSQL, MySQL

Soft Skills: Prototype Development, Project Management, Code Review, Problem Solving, Communication, Creative Thinking, Teamwork, Leadership, Taking Initiative