# Ethan Thomas

☐ +1 (863) 325 5360 | @ ethan@smaze.net | 🔗 ethanmt | 🐙 ethmth | 📍 Winter Haven, FL

## EDUCATION

**Columbia University**                                                         New York, NY
*B.S. in Computer Science*     ***GPA: 4.157/4.0***                      *Sep. 2022 – Oct. 2024*

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

## EXPERIENCE

**Florida Atlantic University**                                                 Boca Raton, FL
*Engineering Research Intern*                                           *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.**                                                                New York, NY
*Software Engineering Intern*                                           *Feb. 2023 – Jun. 2023*

- Developed interactive quizzes and a progress-tracking calendar for a **cross-platform puberty education app**.
- Worked in a team of engineers on the **Flutter** application, integrating **Google Firebase** auth and storage.
- 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, AWS Cloud, 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, Problem Solving, Communication, Teamwork, Leadership