Ethan Thomas

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EDUCATION

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

WORK 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)**.
- Conducted analysis of scooter data to classify riding surfaces for enhanced safety and asset management.
- Utilized a **Raspberry Pi system** equipped with **IMU, GPS, and speed sensors** for data collection.

Puberry Inc.   New York, NY
Software Engineering Intern   *Feb. 2023 – Jun. 2023*
- Developed interactive quizzes, games, and a progress-tracking calendar for a cross-platform **puberty education app**.
- Enhanced the **Flutter front-end** with responsive design and seamless user interactions.
- Integrated **Google Firebase** for secure data storage and user authentication.

PROJECTS

DevFest Hackathon Website | *Next.js, React*
- 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.

Baseball 'Pitch Wizard' Web Application | *Python, Flask, jQuery, Docker, HTML, CSS, Javascript*
- Developed a web app to teach users how to identify baseball pitches, such as fastballs and curveballs.
- Created an interactive lesson and quiz using **Python Flask** for the back-end and **Flask sessions** for progress tracking.

OpenAir-VPN | *Linux, System Programming, Shell Scripting, Bash, Networking*
- Designed 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.

Baseball Analytics Dashboard | *React, R, API, RESTful*
- Built a **React-based web interface** for visualizing pitch data as part of Georgetown Baseball Analytics.
- Integrated with an **R Plumber REST API** to display pitch trajectories and strike zone grids.

SKILLS

Programming Languages: Python, C, C++, SQL, Javascript, Typescript, Java, OCaml
Technical Skills: Git, Linux, Docker, Bash, LaTeX, HTML, CSS, Raspberry Pi, Virtual Machines, UX/UI Design
Libraries & Frameworks: React, NextJS, Node, Flutter, PyTorch, Tensorflow, Selenium, Flask, Godot, PostgreSQL
Soft Skills: Analytical Problem Solving, Communication, Prototyping, Creative Thinking, Teamwork, Leadership