Ethan Montgomery Thomas

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Summary

Columbia University Computer Science student with research experience, graduating in October of 2024. Extensive experience with Linux, Python development, shell scripting, and React web development.

Education

Columbia University   **Graduated October 16, 2024**

Bachelor of Science (B.S.) Degree in Computer Science   4.157 GPA

Experience

Florida Atlantic University   **June 2023 - Aug 2023**

NSF REU Engineering Research Intern   Boca Raton, FL

• Awarded "Most Outstanding Presentation" for E-Scooter Mobility Sensing Research Project.
• Developed a Raspberry-Pi data collection system for electric scooters with IMU, GPS, and Speed sensing.
• Utilized machine learning to classify and predict road riding surface types based on collected data.

Puberry Inc.   **Feb 2023 - June 2023**

Software Engineering Intern   New York, NY

• Developed a front-end application using the cross-platform Flutter framework.
• Worked with Google Firebase storage and auth for data retrieval and storage.

Skills

Programming Languages

Python, C, C++, SQL, Javascript, Typescript, Java, OCaml

Technical Skills

Git, Linux, Docker, Bash, LaTeX, HTML, CSS, Raspberry Pi, Virtual Machines

Libraries & Frameworks

React, NextJS, Flutter, PyTorch, Tensorflow, Selenium, Flask, Godot

Projects

ADI DevFest Hackathon Website   **Sep 2022 - Feb 2024**

🔗 https://2024.devfestcu.com/

Led DevFest 2024 website development (2024.devfestcu.com) using React, NextJS, and Javascript. Contributed to the 2023 DevFest website (2023.devfestcu.com).

OpenAir-VPN

🔗 https://github.com/ethmth/openair-vpn

Created a custom Linux VPN front-end for AirVPN provided configuration files, supporting OpenVPN, Wireguard, and a killswitch. Relies on Linux, Bash, and iptables firewall rules.

Auto-YouTuber

🔗 https://github.com/ethmth/auto-youtuber

Created a tool that creates daily YouTube videos by scraping top posts from Reddit, compiling them into a full-length video, and uploading to YouTube autonomously. Uses Bash, Python, FFmpeg, and Docker.