ETHAN M THOMAS

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SUMMARY

Columbia University Computer Science student with research experience, graduating in May of 2025. Extensive experience developing web front-ends with React, mobile applications with Flutter, and back-ends using Python. Loves Linux, Python/shell scripting, and automation. Seeking a Summer 2024 Internship in Software Engineering.

EDUCATION

Columbia University, Bachelor of Computer Science (B.S.) Graduating **May 2025**
Fu Foundation School of Engineering and Applied Science GPA: **4.153/4.0**

Coursework: Artificial Intelligence, Data Structures, Algorithms, Databases, Networks, Operating Systems, Security

Tau Beta Pi (The Engineering National Honor Society) - Member of the New York Alpha Chapter
Application Development Initiative (ADI) - Organizer of DevFest (annual hackathon), Leader of ADI House

EXPERIENCE

NSF REU Engineering Research Intern June 2023 - Aug 2023
Florida Atlantic University Institute for Sensing & Embedded Network Systems (I-SENSE) *Boca Raton, FL*

- Awarded "Most Outstanding Presentation" for E-Scooter Mobility Sensing Research Project.
- Developed a Raspberry-Pi based 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.

Software Engineering Intern Feb 2023 - June 2023
Puberry *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, R.
Technical Skills	Git, Linux, Docker, Bash, LaTeX, HTML, CSS, Raspberry Pi, Virtual Machines.
Libraries & Frameworks	React, NextJS, Flutter, PyTorch, Tensorflow, Selenium, Flask, Unity3D.

PROJECTS - source code available on GitHub.

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

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

EXTRA-CURRICULAR ACTIVITIES

Competitive Programming Sep 2023 - Present

- Competed in the International Collegiate Programming Contest (ICPC) North American Qualifiers.

Georgetown University Baseball Analytics - Front-End Software Engineer Sep 2021 - May 2022

- Developed web UI for data visualization using React and the R Plumber Library.

Winter Haven Optimist Club - Volunteer/Web Developer July 2019 - May 2021

- Developed and designed a new website for an annual Christmas 5k/10k fundraiser.
- Achieved 49% growth in registered runners the year my site went live.