

# 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 Software Engineering, Cybersecurity, or Quantitative/Research internship.

## EDUCATION

**Bachelor of Computer Science (B.S.)**, Columbia University (SEAS) Junior, Graduating Spring 2025  
Coursework: Artificial Intelligence, Data Structures, Algorithms, Databases, Networks, Probability GPA: 4.192/4.0

## EXPERIENCE

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

- Awarded “Most Outstanding Presentation” for “E-Scooter Mobility Sensing for Smart City Public Safety and Asset Management” 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 independently 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

<b>Programming Languages</b>	Python, C++, SQL, Javascript, Typescript, Java, C.
<b>Technical Skills</b>	Git, Linux, Docker, Bash, LaTeX, HTML, CSS, Raspberry Pi, Virtual Machines.
<b>Libraries &amp; Frameworks</b>	React, NextJS, Flutter, PyTorch, Tensorflow, Selenium, Flask, Beautiful Soup.

## PROJECTS

Project source code, including this resume (LaTeX) and website [ethanmt.com](http://ethanmt.com) (NextJS/React/Typescript), available on GitHub.

**ADI DevFest Hackathon Website.** Secondary contributor for ADI’s 2023 DevFest Hackathon ([2023.devfestcu.com](https://2023.devfestcu.com)). Currently leading DevFest 2024 website development. ([github.com/adicu/devfest-2024](https://github.com/adicu/devfest-2024)). Using React and Javascript.

**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.

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

## EXTRA-CURRICULAR ACTIVITIES

**Columbia Application Development Initiative Committee (ADI)** Oct 2022 - Present

- Head of the Web Development Team for DevFest 2024, ADI’s annual Hackathon of over 200 participants.
- Delivered Google Firebase workshop & recruited speakers for DevFest 2023; Recruitment Liaison for ADI House.

**Columbia Space Initiative (CSI)** Sep 2022 - May 2023

- Built an autonomous water vehicle as part of the NASA Micro-g NExT Competition (2022-2023).

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

- Developed web UI for data visualization using ReactJS 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.