

# ETHAN M THOMAS

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## SUMMARY

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Columbia University Computer Science student with research experience who is graduating in May of 2025. Passionate about Linux, automation using Bash and Python, and front-end development. Seeking a Summer 2024 Software Engineering internship.

## EDUCATION

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

## EXPERIENCE

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**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

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<b>Programming Languages</b>	Java, C++, C, Python, Javascript, Typescript.
<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

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Personal projects available on GitHub.

**Seatgeek Scanner.** Built a tool to continuously search for tickets that fall below a target price within a date range for any given show on Seatgeek. Integrates with IFTTT webhooks. Uses Python, Selenium, and Docker.

**Auto-YouTube.** 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

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**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 - Present

- Worked on 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 that allowed coaches and players to visualize catcher framing data using ReactJS and R.
- Worked with R Data Analysts to convert their projects into APIs using 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.