ETHAN M THOMAS

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OBJECTIVE

Columbia University Computer Science student 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

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

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

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

PROJECTS

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-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

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.