

# ETHAN M THOMAS

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## OBJECTIVE

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Student who is passionate about Linux, automation using Bash and Python, and front-end development. Experienced with Sports Analysis using R, and eager to learn more about Data Analysis. Seeking a Summer 2023 Data or Software Engineering internship.

## EDUCATION

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**Bachelor of Computer Science (B.S.)**, Columbia University (SEAS) Class of 2025  
Relevant Coursework: Data Structures, Advanced Programming, Linear Algebra, Discrete Math GPA: 4.0+

Member of Columbia Space Initiative (CSI) - 2023 NASA Micro-g NExT Competition team member  
Member of the Application Development Initiative (ADI) - DevFest (Hackathon) organizing committee

## SKILLS

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<b>Programming Languages</b>	Java, C++, C, Python, Javascript, Typescript, R, Matlab
<b>Libraries &amp; Frameworks</b>	Selenium, Flask API, Beautiful Soup, React, NextJS, RPlumber
<b>Technical Skills</b>	Linux, Docker, Bash, LaTeX, HTML, CSS, Git, CAD (Solidworks), Virtual Machines
<b>Soft Skills</b>	Patience, Curiosity, Organization, Communication, Rays Fan

## EXPERIENCE

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**Front-End Software Engineer (Club)** Sep 2021 - May 2022  
Georgetown University Baseball Analytics *Washington, DC*

- 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.

**Web Developer/Web Designer (Volunteer)** July 2019 - May 2021  
Winter Haven Optimist Club *Winter Haven, FL*

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

## 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-YouTuber.** Built 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.

**ThingM Blink1 API.** Built an API using Python, Flask, and Docker for the ThingM Blink1, allowing for network control.

**C Web Server** (Class Project). Built a dynamic HTTP/1.0 Server in C that serves static files and entries from a database.

## EXTRA-CURRICULAR ACTIVITIES

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- Volunteer tutoring in math up to Calculus II through Mu Alpha Theta, Schoolhouse.World, and Hatch Tutors.
- Create personal projects in the Columbia Engineering Makerspace by 3D printing models and laser cutting parts designed using Solidworks.
- Interests: Minecraft Mod Development, Musical Theater, Baseball, Reviewing Films, and Tinkering with Linux.

## LEADERSHIP

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- President of Technology Student Association (TSA) Chapter in high school, a club of over 50 students.
- Leader of Art of Engineering Common Project group, which created a “Smart” Hungry-Hungry Hippos game. The game uses an Arduino Microcontroller, beam-break sensors, and push-pull servos.