ETHAN M THOMAS

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OBJECTIVE

Student who is passionate about Linux, automation using Bash and Python, and Front-end Development.
Seeking a Summer 2023 Software Engineering internship.

EDUCATION

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

Programming Languages	Java, C++, C, Python, Javascript, Typescript, R
Libraries & Frameworks	Selenium, Flask API, Beautiful Soup, React, NextJS, RPlumber
Technical Skills	Linux, Docker, Bash, Latex, HTML, CSS, Git, CAD (Solidworks), Virtual Machines
Soft Skills	Patience, Curiosity, Organization, Communication

EXPERIENCE

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

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

- 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 lazer cutting parts designed using Solidworks.
- Interests: Minecraft Mod Development, Musical Theater, Baseball, Reviewing Films, and Tinkering with Linux.

LEADERSHIP

- 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.