Ethan Montgomery Thomas
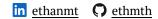
ethanmt   ethmth

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Summary

Columbia University Computer Science new graduate with research experience. Extensive experience with Linux, Python development, shell scripting, and React web development.

Education

Columbia University   Graduated October 16, 2024
Bachelor of Computer Science (B.S.)   4.157 GPA

• Coursework - Artificial Intelligence, Data Structures, Algorithms, Databases, Networks, Operating Systems, Security, Natural Language Processing

• **Application Development Initiative** (ADI) - Organizer of DevFest (annual hackathon), Leader of ADI House
• **Tau Beta Pi** (The Engineering National Honor Society) - Member of the New York Alpha Chapter
• **Columbia Space Initiative** (CSI) - Member of 2022-2023 NASA Micro-g NExT Competition team

Experience

Florida Atlantic University   June 2023 - Aug 2023
NSF REU Engineering Research Intern   Boca Raton, FL

• Awarded "Most Outstanding Presentation" for E-Scooter Mobility Sensing Research Project.
• Developed a Raspberry-Pi 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 collected data.

Puberry Inc.   Feb 2023 - June 2023
Software Engineering Intern   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 - Python, C, C++, SQL, Javascript, Typescript, Java, OCaml.
Technical Skills - Git, Linux, Docker, Bash, LaTeX, HTML, CSS, Raspberry Pi, Virtual Machines, CLI, UX/UI Design, API.
Libraries & Frameworks - React, NextJS, Node, Flutter, PyTorch, Tensorflow, Selenium, Flask, Godot.
Soft Skills - Analytical Problem Solving, Communication, Prototyping, Creative Thinking, Teamwork.

Projects

ADI DevFest Hackathon Website

🔗 2024.devfestcu.com

Led DevFest 2024 website development (2024.devfestcu.com) using React, NextJS, and Javascript. Contributed to the 2023 DevFest website (2023.devfestcu.com).

Web Programming, Front-End, Back-End, Full-Stack, Cloud

OpenAir-VPN

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

Linux, System Programming, Shell Scripting