

Thomas Varano

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Education

University of Maryland – College Park
BS Computer Science
Minor in Mathematics
Graduation: Cum Laude May 2022
GPA: 3.91

Relevant Coursework

Discrete Structures	Calculus III	Organization of Programming Languages
Applications of Linear Algebra	Algorithms	Advanced Data Structures
Applied Probability and Statistics	Intro to Data Science	Analysis of Computer Algorithms
Intro to Machine Learning	Computer Networks	Advanced Calculus I
Programming Languages and Paradigms	Computer Vision	Number Theory

Skills

Programming Languages (Proficient:) Python, Swift, Java **(Experience:)** C, Rust, OCaml, JavaScript, BASH, SQLite, Ruby, Assembly (MIPS)
Technologies: Git, XCTest, \LaTeX , HTML / CSS, Flask, Google Cloud, JUnit, Jupyter, Windows, MacOS, Linux

Experience

Software Engineering Intern • Apple

May 2021 - August 2021

- Validated syncing capabilities of the Shortcuts app on iOS and macOS.
- Quickly comprehended and navigated expansive codebase, developing new tests and improving structure they are built on.
- Developed MultiDevice testing approach to sync multiple devices in a test run, using Swift to run custom Test Plans.
- Triaged test results, report specific failures to Shortcuts developers to improve product to ship.

Teaching Assistant • University of Maryland

August 2020 - May 2022

- Taught student-let course CMSC 3890, The Coding Interview. Teach students techniques for behavioral and technical interviews.
- Acted as office hours and grading teaching assistant for CMSC 132, Object Oriented Programming II.
- Held virtual office hours for students, teaching data structures in Java and helping students debug projects.

IT Intern • Fidelity National Financial

July 2020 - August 2020

- Imaged devices, set up workstations, configure print servers.
- Troubleshooted various server and user issues either in person or over remote connection.
- Learned intricacies of numerous software programs regarding installation, troubleshooting, and repair, maintaining the effectiveness of coworkers.

Projects

Downpou-rs • School Project

2021

- A Bittorrent client built from scratch in **Rust**.
- Comprehended and utilized protocol specifications to manually send requests to peers and trackers.
- Client able to communicate with HTTP trackers and download / seed with optimistic unchoking and peer ranking.

MultiDevice Testing • Intern Project

2021

- Intern project to improve Multi Device testing at Apple.
- Created a new approach for Multi Device testing, generalized to be used on multiple platforms for multiple different Apple products.
- Created a suite of tests in **Swift** using **XCodeUI Tests** for the Shortcuts app, programmatically verifying the app's syncing feature.
- Ran newly created tests in CI environment for Presubmission testing.
- Thoroughly documented project for ease of use across teams and software implementations.

Offset • Competition Project

2021

- A Bitcamp hackathon project analyzing the carbon footprint of consumer deliveries and online shopping.
- Parsed package tracking numbers from user's Gmail using **Python** API.
- Reverse engineered APIs to gather information about packages and their exact carbon impacts.
- Used **Python Flask** to host a website querying all endpoints and displaying information to user.

Project links: tomvarano.com/about

GitHub: github.com/tvarano

Activities / Leadership

Open Sourcing

- Computer Science club specializing in open source cooperation and contribution. Weekly meetings either involve workshops on varying technologies or breakoffs where different groups within the club discuss and work on their own team projects.

Sigma Phi Delta

- Engineering Fraternity
- Webmaster: Maintain website, approve pull requests changes from other chairs for their respective pages.
- Assistant Treasurer: Delegate spending, budget income across projects and events.
- Risk Manager: Minimize Covid risk and ensure all events adhere to Covid guidelines.

Running Club, University Jazz Band, Terrapin Ski Club, UMD Spikeball Club