Thomas Varano

thvarano@gmail.com | tomvarano.com | (201) 887-3953 | linkedin.com/in/thomas-varano/ | github.com/tvarano

Education

University of Maryland – College Park
BS Computer Science
Minor in Mathematics
Graduation: May 2022
GPA: 3.95

Relevant Coursework

Object Oriented Programming II	Linear Algebra	Intro to Computer Systems
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

Skills

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

Experience

Software Engineering Intern • Apple May 2021 - August 2021

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

Teaching Assistant • University of Maryland August 2020 - Present

- Teach student-let course CMSC 389O, The Coding Interview. Teach students techniques for behavioral and technical interviews.
- Act as office hours and grading teaching assistant for CMSC 132, Object Oriented Programming II.
- Hold virtual office hours for students, teaching data structures in Java and helping students debug projects.

IT Intern • Fidelity National Financial July 2020 - August 2020

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

Projects

MultiDevice Testing • Intern Project 2021

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

Top Hits Analyzer • School Project 2021

- A Data Science project analyzing and categorizing trends of Billboard top hits.
- Clean and parse over 325k entries of songs on the BillBoard Hot 100 using **pandas** and **numpy**. Create K-Means model using **scikitlearn** and place songs into categories depending on how they trended on the chart.

Offset • Competition Project 2021

- A Bitcamp hackathon project analyzing the carbon footprint of consumer deliveries and online shopping.
- Parse package tracking numbers from user's Gmail using **Python** API.
- Reverse engineer APIs to gather information about packages and their exact carbon impacts.
- Use **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 Sourcery

- 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
- 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