Vedant Modi

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EDUCATION

Tufts University   Aug. 2022 – May 2026
GPA 3.85, BS Computer Science, BS Mathematics   *Somerville, MA*

Relevant Coursework: Algorithms, Network security, Machine structure, Assembly programming

Data structures, Multivariable calculus, Linear algebra

EXPERIENCE

Tufts University, Department of Computer Science   May 2023 – Present
Course Assistant for Data Structures   *Somerville, MA*

- Host office hours aiding students in course assignments and explaining lecture topics
- Deliver comprehensive lectures about topics and reinforce concepts via coding excercises for weekly 30+ student lab
- Grade student assignments by studying submissions for functionality, testing, and course coding standards
- Contribute to course infrastructure—autograding software, unit tests, organizing TA grading, and project solutions

Tufts JumboCode   September 2023 – Present
Developer   *Somerville, MA*

- Develop an app benefiting the Emerald Necklace Conservancy educating visitors on preservation
- Design a full-stack web application using React, MongoDB, Bun
- Practice team-based coding powered by Git and GitHub collaboration tools

Tufts University, Office of Academic Space Management   May 2023 – Present
Receptionist   *Somerville, MA*

- Service community via organizing mail, and analyzing building usage for largest academic buildings on campus

RELEVANT PROJECTS

World Clock | *JavaScript, HTML, CSS*   Aug. 2023

- Created a web application showing the time of chosen cities, with a helpful interactive map to aid in visualization
- Designed using Maptiler and OpenStreetMap for map, and modeled UI with Figma
- Published application to personal website with custom autocomplete search bar and tracked development with Git

IATA Guesser | *JavaScript, HTML, CSS*   Jul. 2023

- Memory game generating random IATA airport codes for the user to recall
- Used Toastr for popups reflecting answer and created a custom autocomplete search box

vfl | *C, Makefile, Bash*   Oct. 2023

- Authored a program that reads/writes binary files representing flight itineraries
- Practiced optimizing file size by considering how many bits needed for each itinerary detail

SKILLS AND INTERESTS

Programming Languages: C/C++, Python, Assembly, JavaScript, TypeScript, HTML/CSS, R, SQL, LaTeX
Frameworks and Environments: React, React Native, Node.js, MongoDB, Bun
Technical Topics: Machine arithmetic, memory architecture, performance analytics, data structures and algorithms, compilers, object-oriented programming
Developer Tools: Visual Studio Code, Git, GitHub, GCC, Makefile, Figma, Linux/Unix, Bash, SSH, AutoHotkey
APIs and Libraries: LeafletJS, OpenStreetMap, Maptiler, Maplibre, Mapbox, ArcGIS, OpenSkyNetwork, pandas, tz
Media: Droneography, Photoshop, Lightroom, After Effects, Davinci Resolve Studio, Premiere Pro, InDesign, Wordpress
Spoken Languages: Proficiency in English, Hindi, Spanish, and French
Travel: Hiking mountains, traveling to novel destinations, searching for amazing flight deals
Standards: Expert in recalling IATA airport codes, ISO country codes, and timezones