

# Vedant Modi

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## EDUCATION

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### 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

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### 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 exercises 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

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### 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 – Feb. 2024

- Authored a program that reads/writes binary files representing flight itineraries
- Wrote a collection of Python modules that aid the compression, like quantizing timezones, or finding the UTC offset of an airport, given its code

## SKILLS AND INTERESTS

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**Programming Languages:** C/C++, Python, x86-64 Assembly, JavaScript, TypeScript, HTML/CSS, R, SQL, LaTeX

**Frameworks and Environments:** React, React Native, Node.js, MongoDB, Bun

**Technical Topics:** Software testing, object-oriented design, encrypted network programming, machine arithmetic, memory hierarchy (especially cache structures), performance analytics, data structures, algorithms, compilers

**Developer Tools:** Linux/UNIX terminal, shell scripting, Git/GitHub-assisted development, GCC, Makefile, Figma

**JavaScript APIs:** Mapping APIs (e.g. MapBox, Maplibre, LeafletJS, OpenStreetMap, qGIS)

**Python Modules:** pandas, matplotlib, sys, select, socket, tz

**Spoken Languages:** Proficiency in English, Hindi, Spanish, and French

**Media:** Droneography, Photoshop, Lightroom, After Effects, Davinci Resolve Studio, Premiere Pro, InDesign, Wordpress

**Travel:** Hiking mountains, traveling to novel destinations, searching for amazing flight deals

**Standards:** Expert in recalling IATA airport codes, ISO country codes, and timezones