

# Jonathan Torres-Tomas

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## EDUCATION

### **Duke University**

*Bachelor of Science*

Double Major: Computer Science, Economics; Minor: Japanese

Honors: QuestBridge National College Match Scholarship (Full Tuition), Golden Door Scholarship (Full Tuition)

**Relevant Coursework:** Economics 101, Computer Science 201, Math 112L, Japanese 102

Durham, NC

May 2026

## RESEARCH AND ACADEMIC PROJECTS

### **Portfolio Website** – Durham, NC

Summer 2023

- Created a personal portfolio website using a combination of Figma, HTML, CSS, and JavaScript
- Coded and tested to ensure it works on all platforms including PCs, laptops, mobile devices, and browsers

### **Autocomplete Algorithm** – Durham, NC

Spring 2023

- Implemented HashMap and Binary Search data structures to design an algorithm that suggests completions to the user typed text based on their predetermined weight, with the term with the most weight being shown first
- Benchmarked and analyzed the runtime and space tradeoff between these two implementations using data containing more than 2 million terms

### **File Compression/Decompression** – Durham, NC

Spring 2023

- Implemented Huffman's algorithm to compress and decompress digital data using a variety of methods such as priority queue, I/O classes, and recursion to construct a tree for data encoding
- Successfully compressed up to 45% of data on txt and jpeg files

## EXPERIENCE

### **Duke University Code + Internship**

Durham, NC

*Software Developer*

May 2023 – August 2023

- Redesigning the UI, layout, and user experience of academicjobsonline.org, which is used by more than 160,000 users and 1000s of institutions in over 75 countries
- Created designs, wireframe, and brand guide in collaboration with the development team using Figma
- After designing, brought those visions to life utilizing HTML, CSS, JavaScript, and React

### **Kentucky Fried Chicken**

Hendersonville, NC

*Cashier and Packer*

April 2020 – May 2021

- Worked with a team to make sure all orders were taken, packed, and served efficiently and with a smile
- Adapted to the day's staffing availability and learned how to work multiple positions fast and efficiently
- Cleaned up and made sure everything was put away and stored as determined by procedure before closing

## LEADERSHIP AND OTHER ACTIVITIES

### **Duke Latinx Business Organization, Member** – Durham, NC

August 2022 – May 2023

- Attended meetings and workshops where I met and networked with guest speakers from sectors ranging from software development to finance, gaining insights, tips, and knowledge on their sectors along the way
- Worked on improving my resume and various soft skills needed to land and ace interviews

### **Duke University Marching Band, Band Member** – Durham, NC

August 2022 – April 2023

- Learned my drill and music quickly and efficiently. Worked with others to continuously improve everyday

### **Senior Class President, President** – Hendersonville, NC

August 2021 – June 2022

- Worked in collaboration with the senior class and school faculty to create, plan, and lead school wide events, fundraisers, and raise school spirit. Listened to those around me and their feedback for future events
- Attended monthly meetings with county and state officials to discuss what we had been working on that month, recent events, and our plans for the future such as planned school fundraisers and upcoming conferences

### **National Honor Society President, President** – Hendersonville, NC

August 2021 – May 2022

- Created, planned, and led fundraising events and service days that benefitted the mission of the NHS
- Led weekly meetings in which we discussed the week's happenings, upcoming fundraisers, and service events

## SKILLS AND LANGUAGES

**Computer/Technical:** HTML (Advanced), CSS (Advanced), Java (Advanced), JavaScript, React, Microsoft Office Products (Advanced)

**Languages:** English (Native), Spanish (Native), Japanese (Proficient)

**My Diversities:** First Generation College Student, Immigrant, Race/Ethnicity (Hispanic or LatinX), Socioeconomic Background