

# Thienan Tran

[ttran010@bu.edu](mailto:ttran010@bu.edu) | [linkedin.com/in/thienan-tran-35176620b](https://www.linkedin.com/in/thienan-tran-35176620b) | [github.com/thienantran010](https://github.com/thienantran010)

## EDUCATION

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### Boston University

*BA in Computer Science, Data Science minor*

GPA: 3.91

Boston, MA

*Expected May 2024*

## EXPERIENCE

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### Office Assistant

Sep 2021 – Sep 2022

*Boston University Department of Development and Alumni Relations*

*Boston, MA*

- Worked with team to help hundreds of alumni with their questions and requests
- Taught myself how to build registration pages so hundreds of people can sign up for events
- Trained new student employees

### Teacher's Aid Volunteer

July 2017, July 2018

*Cathedral Academy at Pompei*

*Syracuse, NY*

- Assisted teachers in delivering lessons in English, math, and science to elementary students in summer program
- Chaperoned the 30 students while teachers were busy
- Solved technical difficulties

## PROJECTS

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### Mafia Web Game | *MongoDB, Express, React, Node, Typescript, Material UI, socket.io*

June 2023 - Present

- Implements JWT authentication and authorization via cookies
- Sends an email to the user to confirm their account, for additional security
- Features live games and data via socket.io
- Live chat and game incoming!

### Personal Website (4) | *React.js, Chakra UI, MongoDB, Express, Node*

May 2023

- Built an API that supports CRUD operations, primarily used to serve fun facts
- API supports cross-origin requests but has an authentication feature, so people can't make up facts about me
- API uses the ChatGPT API to generate lies about myself
- Used Chakra UI to create a pleasant user experience
- Deployed using Netlify at <https://ttran.netlify.app/>

### Recognizing Professor's Handwriting with Machine Learning | *Python*

April 2023

- Collected 25 handwritten instances of each of the following letters: a, b, c, d, e
- Cleaned data and converted it into a list of one-hot encodings
- Implemented four neural networks, differentiated by data augmentation, convolutional layers, and transfer learning
- Trained a model on the EMNIST dataset
- The best model had a 97% accuracy on the testing dataset

### Photoshare | *Flask, MySQL*

Feb 2023

- Built a photo-sharing website with a registration and authentication system
- Users can create albums, post photos, comment on photos, and like photos
- Wrote complex MySQL queries to generate friend and photo recommendations
- Implemented a sorting feature so users can sort by most likes and specific tags

### Google Software Product Sprint | *HTML, CSS, JavaScript, Java, Git*

Summer 2022

- Created a portfolio website using Google APIs and Java Servlets
- Added transitions and styles and reviewed code for a collaborative project involving a web app that displayed essential college items

## TECHNICAL SKILLS AND ACTIVITIES

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**Languages:** HTML, CSS, JavaScript, Python

**Developer Tools:** Git, VS Code, Postman

**Activities:** Hack4Impact, Google Software Product Sprint, Hackathons