

# Tameem Tantawy

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## EDUCATION

**University of South Florida**  
*Bachelors in Computer Science*

Tampa, FL  
*Expected Graduation: May 2027*

**GPA:** 3.86/4.0

**Relevant Courses:** Programming Concepts (Python), Program Design (C), Computer Organization, Object-Oriented Programming (OOP), Data Structures, Algorithms (Princeton University)

**Achievements:** USF Green and Gold Presidential Awards, USF Dean's List (Fall 2023)

## EXPERIENCE

**Co-Founder & Lead Developer**

May 2024 – Present

*Masjidy*

*Tampa, FL*

- Co-developed a **cross-platform mobile application** using **React Native** and **Django** to connect users with local mosques, manage donations, prayer times, announcements, and events.
- Implemented **dynamic frontend** UI components and navigation using **React Native** and **NativeWind** to enhance user experience.
- Developed an algorithm** to suggest mosques based on user location, enhancing relevance and engagement.
- Architected a scalable **backend** system with **Django's REST Framework**, leveraging **Redis for caching** to decrease data retrieval times by **30%** and utilizing **PostgreSQL** for consistent and reliable data storage.
- Managed deployment processes and conducted thorough testing using tools like **Postman**.
- Successfully pitched the app to **30+** mosques in the Tampa Bay area, securing interest and commitment for testing.

**Software Engineering Volunteer**

April 2024 – May 2024

*Shawarma Bono*

*Remote*

- Developed a dynamic **Full-Stack** website for a local shawarma restaurant using the **MERN** stack, enhancing digital customer engagement.
- Developed the web application using **React.js** working as the front end and implemented authentication using **Context API** while storing and retrieving data from **MongoDB** managed through a **RESTful API** that is designed by **Node.js** and **Express.js** to serve as the backend with functionality verified through **Postman**.
- Implemented **JSON Web Tokens** for secure authentication processes, ensuring robust security for user data and transactions.
- Collaborated closely with restaurant owner to identify requirements, leading to a tailored website that improved total orders received by **30%**, resulting in an increase in revenue of **\$24,000**.

## PROJECTS

**Pork-Free Dining Finder** | *React, FastAPI, PostgreSQL, Selenium, BeautifulSoup*

- Developed a web scraper using **Selenium** and **BeautifulSoup** to gather and categorize food data from the 3 USF dining halls
- Implemented a backend with **FastAPI** to process and serve the scraped data, and integrated **PostgreSQL** for data storage.
- Designed a **React.js** frontend to display categorized food data, indicating whether foods contain pork or not so people can get precise information.
- Set up a scheduling mechanism to run the scraper at set times and update the database, ensuring up-to-date information.
- Packaged and deployed the backend serverlessly using **Docker** and **AWS Lambda** for efficient and scalable deployment.

**Cliff Diver AI** | *Python, PyGame, NEAT-python algorithm*

- Developed** an interactive diving game from scratch using **Pygame** utilizing the **NeuroEvolution of Augmenting Topologies (NEAT)** algorithm to dynamically train an agent to master the game mechanics.
- Implemented complex game physics to simulate realistic diving dynamics, enhancing the AI's learning experience and game authenticity.
- Analyzed when the AI reached its maximum **fitness** which was after an average of **80** generations.

## TECHNICAL SKILLS

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

**Frameworks/Libraries:** React.js, React Native, Node.js, Express.js, Django, FastAPI, NEAT-python, Pygame, Selenium, BeautifulSoup

**Database Technologies:** PostgreSQL, MongoDB

**Developer Tools:** Git, Github, Github Desktop, Visual Studio Code, Postman, Docker, Amazon Web Services Lambda, EC2, S3

**Languages:** English (fluent), Arabic (fluent)