

Michael Tu

Email : mtu4172@gmail.com | Mobile : 813-474-8289 | GitHub : mtu4172 | LinkedIn : mtu4172

EDUCATION

University of Florida

Gainesville, FL

B.S in Computer Science; GPA: 3.91/4.00

Aug 2021 – May 2025

- **Relevant Coursework:** Operating Systems, Data Structures and Algorithms, Software Engineering, Linear Algebra, Discrete Mathematics, Statistics, Computer Organization, Multimodal Machine Learning

EXPERIENCE

Wells Fargo

Charlotte, NC

Software Engineer Intern

June 2024 – Present

- Developed software in C# to support corporate and commercial banking functions, facilitating derivatives trading.
- Generated VaR calculations for corporate clients, providing data for day-to-day risk management.
- Expanded risk assessment system to include securities traded via over-the-counter (OTC) markets.

Lockheed Martin

Dallas, TX

Software Engineer Intern – Active Secret Security Clearance

June 2023 – Aug 2023

- Worked on an agile team to develop embedded software on VxWorks real-time operating system.
- Wrote Ada code for PrSM Increment 1 missile guidance software and integrated it into a CI/CD pipeline.
- Performed HWIL simulation runs and interpreted Wireshark and telemetry data.
- Streamlined test documentation procedure using LaTeX and Git to allow for simultaneous access of documents.

PROJECTS

City.io

Jan 2023 – May 2023

- Developed an online city-building game written in Go and TypeScript using the Angular framework.
- Designed user interface for login and game components. Ensured functionality of front-end components using Cypress End-to-End tests.
- Collaborated with teammates using Git, assigned issues, and planned sprints to ensure timely delivery of updates.

Deep Guitar

March 2023 – May 2023

- Created a mulitmodal machine learning model, which uses both audio and visual input to identify guitar chords.
- Tracked hand positions using Mediapipe framework and extracted audio features using Librosa library.
- Trained a KNN model and convolutional neural network with visual and audio features to classify chords.
- Utilized late fusion to combine video and audio classifiers, producing a single model with improved performance.

INVOLVEMENT

IEEE UF Student Branch

Gainesville, FL

Media Coordinator

June 2023 – April 2024

- Produced graphics and videos promoting corporate events, technical workshops, socials, and general body meetings.
- Collaborated with fellow board members to plan and organize professional and social events.
- Managed social media accounts to maximize engagement with 800+ members on Instagram and Slack.

SKILLS

- **Languages:** (Proficient) C++, Python, Java, C#, JavaScript/TypeScript, HTML/CSS, MATLAB, LaTeX (Familiar) SQL, R, ARM Assembly, Ada
- **Tools:** Git, Jira, Cypress, Jupyter Notebook

AWARDS

- **Bloomberg Bpuzzled 2024 Finalist:** Represented University of Florida in international puzzle competition hosted by Bloomberg. Finished 8th among 43 universities that participated.
- **University of Florida Dean's List:** College of Liberal Arts and Sciences (Fall 2021 - Spring 2024)