

MICHAEL TAYLOR

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Education

Texas A&M University

B.S Computer Science, Minor in Economics and Statistics

May 2027

College Station, Texas

Technical Skills

Languages: C/C++ (C++17), C#, Python, Swift, Dart, SQL, HTML/CSS/JS

Frameworks/Libraries: React, Node.js, Pytorch, Numpy, Pandas, Matplotlib, .NET, Flutter

Technologies: Linux, Git, Valgrind, GDB, Github/Bitbucket, Jira, Confluence, Microsoft Office, Google Cloud

Relevant Coursework: Data Structures and Algorithms, Databases, Operating Systems, Software Engineering

Experience

NinjaOne

May 2024 – August 2024

Software Engineer Intern

Austin, Texas

- Developed and debugged frontend features for NinjaOne's iOS Mobile Platform, enhancing RMM client environments.
- Integrated **Jazzy** for automated documentation for the iOS platform and implemented unit tests using XCTest, enhancing code maintainability and on boarding efficiency.
- Collaborated in Agile sprints with senior engineers, contributing to on-time delivery of features and deepened understanding of develop workflows.
- **Technologies:** Swift, SwiftUI/UIKit, XCTest, Alamofire.

Undergraduate Assistant Researcher

August 2024 - Present

Texas A&M University - Sketch Recognition Lab

College Station, Texas

- Built **activity classification** models for children's swimming using **HAR time series data**, achieving an **86% accuracy** rate across multi-class labels.
- Implemented **CNNs**, **LSTMs**, and **BSTMs** using **HPC Clusters**, leveraging CUDA for acceleration.
- Co-authored paper in progress; presented findings at research symposiums with a focus on data preprocessing and model selection in Human-Computer Interaction spaces.
- **Technologies:** Python, Pytorch, Numpy, Pandas, basic CUDA usage with high performance computing labs.

Projects

Galaga Remake | C/C++, SDL2

- Engineered a modern C++ remake of **Galaga** using **manual memory management**, **SDL2**, and a custom **ECS architecture**, emphasizing low-latency rendering and modularity.
- Implemented frame-capped game loop, collision detection
- Cross-compiled using **Emscripten** exploring compiler toolchains and platform portability.

Pokedex | Swift/SwiftUI

- An **iOS application** built with **SwiftUI** and **MVVM** style architecture, enabling users to search, filter, explore Pokemon and their attributes.
- Fetched and parsed data from the **PokeAPI** with smooth and asynchronous networking.

Historical Stock Gains | C#, .NET

- Full stack Stock Dashboard built using **.NET** framework and **bootstrap** to view historical data and calculate potential returns on positions.
- Integrated the **Yahoo Finance API** to fetch historical data in combination with **ASP.NET** to handle API integration.

Activities, Interest

Activities

TAMU Swim Club, Aggie Coding Club, Aggie Yacht Club, Texas A&M Weightlifting Club

Interest

Weightlifting/Bodybuilding, Sailing, Hotpot, Cardistry