



Tyler Adam Martinez

SOFTWARE ENGINEER

CONTACT

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EDUCATION

University of North Texas
Denton, TX
*Bachelor of Science: Computer
Science 2023*

SKILLS

Team Work	
Communication	
Frontend Development	
Backend Development	

STUDENT ORGS

HackUNT	
President	AUG 22 - PRESENT
UNT Robotics	
Support Officer	OCT 22 - PRESENT
Treasurer	AUG 19 - AUG 21

EXPERIENCE

CodeStream Studios

Senior Design Project / Aug 2022 - May 2023
Forked vscode and modified it heavily for educational use. Implemented dockerfiles, so each student code is isolated and secure.

Junior Backend Engineer

 / Summer 2022

Built a C# ASP .NET web API to be called in the REACT.js frontend. In addition, I created internal tools in python to generate educational and corporate reports.

Coding Instructor

 / Nov 2021 - present

Taught a REACT.js course for Seagoville High School (Dallas, ISD), and taught a python lesson virtually through the CodeStream Studios online code editor.

HackDFW 2022 - 3rd place winner

Hat Or Not - An AI engine to determine if a person is wearing a hat or is not wearing a hat.

IEEE R5 Competition

Built the power distribution board that ran on 3 different logic levels and programmed a single board computer (Raspberry Pi 3) to control the electric motors

SofaBot

Created the entire schematic for the robot, then built the circuit that controls the motors, lights, and electrical braking system

HackUTD - 3rd place winner

(*Best Use of ESRI Technology*) (*Best UiPath Automation Hack*)
Pothole Project - Detects potholes and automatically fills out a report to the local DMV where the pothole was detected (OpenCV, Python, UiPath API, ESRI API)

HackUNT III - 1st place winner (RESPEC challenge)

ReStep - Tracks the number of steps an employee walks and calculates the average steps from all employees participating. Then displays to the user where they rank in comparison (Java, Swift, HTML, CSS, Javascript)

UNT

Robotics Tutor / Oct 2019 - Jul 2021

Established electronics workshops and software workshops and advised senior design groups.

NT Daily

Web Developer / Aug 2019 - Jul 2021

Strengthened the school's newspaper's website and created graphic designs.