

# Weston Mauz

Engineer | Computer Scientist | Leader

Engineer with professional experience applying computer science to design, build, & implement data-driven solutions



## Experience

### Samsung Austin Semiconductor

Austin, TX, USA | On Site | Full Time | January 2023 → Present

#### Software Engineer

Building & upgrading internal web tools for the manufacturing facilities.

#### Systems Engineer

Developed a full-stack data governance system for asset management for the manufacturing equipment. The system continuously manages 5000+ pieces of equipment and is comprised of a web application, mobile app, centralized relational database, API, cron jobs, & business intelligence dashboards. Won the **President's Award** for successful integration of digital transformation in the company.

#### Chiller Engineer

Sponsored three vendors to drive continuous improvement of the 24/7 chiller operation in the manufacturing facilities. Applied data science, data engineering, data analytics & software development to build an end-to-end solution to equipment management. Built an automated leak detection software that reduced chiller coolant usage by 25% & engineered a business process to proactively replace end-of-life parts, resulting in a combined >\$300,000 /yr cost savings. Performed multiple reliability analysis studies for future equipment management improvement.

### Taiwan Semiconductor Manufacturing Company

Tainan, Taiwan | On Site | Full Time | March 2021 - April 2022

#### Equipment Engineer

Sponsor of atomic layer deposition furnace tools for 5nm semiconductor manufacturing process. Worked with engineers to deliver continuous improvement of the equipment.

## Education

### Colorado School of Mines

#### Bachelor of Science in Mechanical Engineering | May 2019

Engineering, mathematics, computer science, physics, machine design, fluid mechanics, chemistry, & heat transfer.

### California Institute of Technology

#### Certificate in AI & Machine Learning | January 2023

Utilized modern tools to process data, build models, & apply them to real-world problems. Courses: applied data science with python, machine learning, & deep learning.

## Top Skills

**Computer Science:** Software Engineering | Full Stack Development

↳ **Data:** Data Science | Data Engineering | Data Analysis

**Languages:** Python | Javascript | SQL

**General:** Learning | Leadership | Technical Writing | Organization

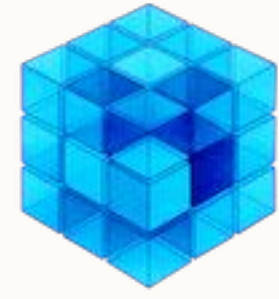
# Weston Mauz

U.S. Citizen  
Austin, TX, USA

## Experience continued

### Morpheus Tech LLC

Remote | Part-Time | May 2016-Present



#### Founder & CEO

Building 3D simulation software. Version 1 was published in Q4 2025 & will be expanding its capabilities through Q1 2026.

### Wunderman Thompson Mobile

Denver, CO | On Site | Full Time | August 2019-May 2020

#### Associate Software Developer

Part of an agile team engaging in iOS development: features, bug fixes, core data, & networking.

## Tools

**Frontend:** Vue | ThreeJS

**Backend:** PostgreSQL | FastAPI

**OS:** MacOS | Linux | Windows

**General:** Public speaking | design | teamwork

## Secondary Skills

**General:** Public speaking, design, Lean Six Sigma (bronze)