

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

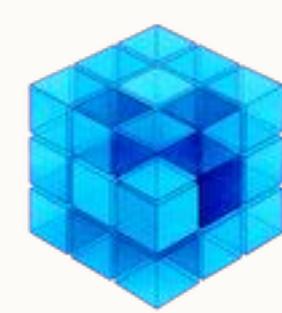
General: Learning | Leadership | Technical Writing | Organization

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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)