

# Jose Trinidad Temblador

[josetemplador.com](http://josetemplador.com)

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Computer Science honors graduate (CSUDH, May 2026) with hands-on systems and ML experience — real-time orbital propagation in C++, NFL prediction models outperforming industry benchmarks, and full-stack data pipelines from scratch. U.S. citizen eligible for security clearance. Bilingual in English and Spanish.

## PROJECTS

### [OrbitWatch — Real-Time Satellite/Conjunction Tracker](#) [In Development] | C++, Python, FastAPI, CesiumJS, NASA SPICE

- Built a custom C++ SGP4 orbital propagation engine compiled via pybind11, computing positions for hundreds of satellites in real time.
- Implemented a full coordinate transform pipeline (TEME to ECEF to geodetic) using NASA's SPICE toolkit for accurate positioning.
- Developed a FastAPI REST backend with 6 endpoints and 279 automated tests, serving a Cesium.js interactive 3D globe with orbit trails and time controls.

### [NFL Player Performance Prediction System](#) | Python, CatBoost, DuckDB, Streamlit, Pandas

- Built a CatBoost ensemble achieving 4.26 MAE, outperforming industry DFS platforms (standard: 4.5–5.5), trained on 109 weeks of NFL data with 50 engineered features and rolling variance metrics.
- Versioned the pipeline through 4 iterations (v1–v4), tracking model performance across CatBoost, XGBoost, and LightGBM variants; CatBoost outperformed alternatives by 8–12%.
- Built a Streamlit dashboard for interactive prediction queries and model comparison across historical weeks.

### [Portfolio Website + Live Star Viewer](#) | JavaScript (ES6), Canvas2D, Python, HTML/CSS

- Designed and deployed a personal portfolio site at josetemplador.com with custom domain and responsive layout.
- Contains a Canvas2D rendering engine with full drag/zoom control, time controls, and constellation highlighting across 15 ES modules.
- Renders 15,598 real stars from the HYG v42 catalog with B-V color index mapping, magnitude-based brightness, and scintillation effects.
- Computes planetary ephemeris at runtime using JPL Keplerian orbital elements.

### [Crypto Market Trend Predictor](#) | Python, XGBoost, FinBERT, Kraken/Reddit/X APIs

- Designed a binary classification pipeline combining OHLC price data with social media sentiment from Reddit and X APIs.
- Applied FinBERT transformer for financial sentiment scoring; integrated Kraken API for real-time price data and technical indicators (MACD, RSI, Bollinger Bands).

## SKILLS

**Languages:** Python, C++, JavaScript, HTML/CSS, Java, SQL

**ML/Data:** CatBoost, XGBoost, Scikit-learn, Pandas, NumPy, DuckDB, Parquet, FinBERT

**Frameworks:** FastAPI, Node.js, Streamlit, CesiumJS

**Tools:** Git, GitHub, Linux, CMake, Make, Canvas2D, pybind11, NASA SPICE, REST APIs, Jupyter, Docker, pytest

## EDUCATION

### **Bachelor of Science with Honors in Computer Science**

California State University Dominguez Hills, Carson, CA | May 2026

- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Machine Learning, Object-Oriented Programming, Computer Architecture

### **Associate of Science — Mathematics** (and 5 additional associate degrees across STEM, arts, and humanities)

Riverside City College, Riverside, CA | Graduated May 2022

## PROFESSIONAL EXPERIENCE

### **Worship Band Leader / Music Director** | House of the Lord | Ontario, CA

July 2018 – Present

- Leading a team of 8+ musicians across weekly rehearsals and live performances, managing scheduling, set lists, and real-time stage coordination. Collaborate with A/V volunteers on live sound production.

### **Full-time Undergraduate Study & Project Development** | CSU Dominguez Hills | Carson, CA

April 2024 – Present

### **Civil Analyst** | Hampton Tedder Electric | Montclair, CA

October 2023 – April 2024

- Owned project closure workflows, reducing documentation backlog and ensuring on-time billing submissions.
- Monitored and reconciled project expenses, maintaining cost reporting accuracy under tight deadlines.
- Flagged resource conflicts in daily standups with PMs, contributing to on-time delivery across active projects.

### **Caregiver** | Right at Home | Ontario, CA

July 2018 – March 2023