

Max Weinstein

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EDUCATION

Purdue University | West Lafayette, IN

May 2028

Computer Science + Math, Minor: Business

Thomas Jefferson High School for Science & Tech | Alexandria, VA

June 2025

Relevant Courses: Machine Learning, Computer Vision, Artificial Intelligence, Multivariable Calc, AP CS + Data Structures

SKILLS

Languages: C++, Go, Java, Javascript, Python, Rust

Technologies: AWS, Babel, Docker, Git, Kubernetes, OpenCV, Node, Pandas, React.js, Scikit-Learn, Sveltekit, TensorFlow

Interests: Climbing, Computer Vision, Machine Learning, Reverse Engineering, Wrestling

WORK EXPERIENCE

Freelance Reverse Engineering | Remote

May 2025 - August 2025

- Reverse engineered web **JavaScript anti-bot** systems by **deobfuscating code**, transforming **abstract syntax trees (AST)** with **Babel**, and bypassing **dynamic integrity checks** to automate interactions and build large-scale scraping pipelines.
- Performed reverse engineering of **native Android applications** with JNI obfuscation. Used **Frida**, and dynamic analysis to uncover internal APIs, **bypass integrity checks**, document system behavior, and find **vulnerabilities**.

safekids.ai | Fairfax, VA | Software Engineering Intern

May 2023 - August 2023

- Built and **maintained backend services** for a child online safety platform; **optimized MITM proxy** for real-time network analysis; updated backend dependencies to **eliminate security vulnerabilities** and **improve system resilience**.

PROJECTS

PredictionEdge | Go, HTML/CSS

December 2025 - January 2026

- Built a low-latency **prediction market arbitrage system** in Go that maintains live WebSocket connections to multiple exchanges, **canonicalizes equivalent markets**, and **computes real-time arbitrage margins** with sub-100ms latency.
- Engineered a concurrent pipeline processing **thousands of order book updates per second**, filtering opportunities by **liquidity, fees, and slippage**, and driving **automated trade placement** logic on high-confidence edges.

PartiPix | Go, Python, HTML/CSS

April 2025

- Created a photo sharing platform supporting **10,000+ images per event** with a Python-based **facial recognition** pipeline (**OpenCV + CNN**) for automatic **tagging and categorization**. Achieved **~93% accuracy** on face recognition.

WeTrade | Go, Python, HTML/CSS (React.js)

September 2024 - May 2025

- Built a fully autonomous stock trading bot leveraging **large-scale news scraping**, real-time **sentiment analysis**, **LSTM-based forecasting**, and technical indicators. Created a website to interact with the bot and modify the portfolio.
- Engineered custom scraping infrastructure capable of **processing 50,000+ Yahoo Finance articles per minute** using **IPv6 proxy networks**, enabling training data accumulation for the model to make decisions based on **historical data**.

Auditory-InSights | Python, Hardware Integration

December 2023 - February 2024

- Developed **augmented reality glasses** that **visualize audio cues** (such as fire alarms and sirens) for **deaf users**, allowing them to sense danger. Integrated **real-time sound localization and visualization** using Python and custom hardware.
- Designed and built a lightweight **wearable system** with a **directional microphone array**, custom **PCB**, and transparent **OLED display**, achieving **sub-100ms latency** for on-device sound detection and AR overlays.

WeCode | Go, Python, HTML/CSS

March 2024

- Built an AI-powered **educational platform** with a Go backend and Python-based models that personalized programming lessons to **student interests** and supported interactive coding exercises with **real-time feedback** and progress tracking.