

MAXWELL SILVERSTEIN

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SUMMARY

Technical operations professional and independent developer with 5+ years of experience spanning enterprise workflow automation, client-facing technical work, software development, and process improvement. Currently pursuing an M.S. in Artificial Intelligence at the University of Colorado Boulder, with graduate work spanning machine learning, probability, and statistics. Builds data-driven applications and automation systems that translate complex technical problems into practical tools for real-world users.

SELECTED PROJECTS

York St Vector - Environmental Reporting & Geospatial Evidence | TypeScript · Next.js · PostGIS · NWS APIs

- Built an environmental-reporting web application that combines resident geolocation with recent National Weather Service observations to generate wind-contextualized evidence for odor complaints.
- Implemented geospatial wind assessment using Haversine distance, wind-direction conversion, a 45° dispersion cone, and a 90-minute observation window across two weather stations, with explicit handling of calm conditions and unavailable data.
- Developed a privacy-conscious workflow with coarsened stored locations, hashed household identifiers, rolling 30-day household counts, and human-assisted Denver 311 filing handoffs.

Megatron - Probabilistic NFL Projection & Decision System | Python · PyTorch · XGBoost · GitHub Actions

- Built an NFL projection pipeline using lagged player-game features and a PyTorch quantile Transformer, separating raw-stat forecasts from configurable scoring to support multiple fantasy-league formats.
- Achieved 4.325 PPR-point MAE - 2.8% below XGBoost - across 17,908 held-out player-weeks using season-based walk-forward evaluation; prediction intervals achieved 79-82% coverage against an 80% nominal target.
- Delivered automated decision tools through GitHub Actions and GitHub Pages, combining uncertainty-aware projections, availability-adjusted season simulation, read-only Sleeper draft updates, and keeper-aware draft optimization.

Birdie - Launch-Monitor Practice Analytics | Python (standard library) · SQLite

- Built a read-only analytics tool that parses a golf simulator's club-delivery and ball-flight logs into SQLite, groups recurring misses, and ranks practice priorities with a strokes-gained cost model, served as a phone-readable report on the local network.
- Made "never write to the simulator" a tested invariant: 1,200+ tests cover malformed and truncated log parsing, shot deduplication across overlapping reads, cost-model arithmetic, and zero writes to simulator directories, verified in two live sessions on the real machine.

PROFESSIONAL EXPERIENCE

Independent Developer - AI & Data Applications

Feb 2025 - Present

Self-Employed · Denver, CO

- Design, build, and deploy data-driven applications spanning environmental reporting, machine learning, workflow automation, and decision-support systems.
- Develop end-to-end systems integrating external APIs, databases, automated data pipelines, AI models, and modern web interfaces.

Senior Sales Consultant & Training Lead

Oct 2019 - Feb 2025

evo · Denver, CO

- Developed deep subject-matter expertise in technical product systems and became a primary escalation point for complex customer and operational problems.
- Reviewed and implemented technical documentation and SOPs, trained 15+ team members, piloted new tools and workflows, and coordinated with brand partners and internal stakeholders.

Technical Operations Analyst

Jul 2020 - Jan 2021

Objectif Lune · Remote

- Designed automated data-processing workflows using SQL and XML for enterprise retail and distribution clients including Target and CVS.
- Built systems to parse fulfillment data and automate shipping-label generation; served as technical liaison between clients and engineering, translating business requirements into documented technical solutions.

EDUCATION

University of Colorado Boulder

M.S. Artificial Intelligence · Expected May 2028

Graduate coursework: Supervised Learning, Unsupervised Learning, Deep Learning, Probability & Statistics, Ethics & AI

University of Denver

B.A. Environmental Science, Minor in Sustainability · Dec 2019

TECHNICAL SKILLS

Programming & Data: Python, R, SQL, JavaScript/TypeScript, pandas, NumPy, scikit-learn

AI & ML: PyTorch, XGBoost, supervised learning, unsupervised learning, deep learning, statistical modeling, model evaluation

Applications & Infrastructure: PostgreSQL, PostGIS, SQLite, Supabase, REST APIs, Git/GitHub, GitHub Actions, Vercel

Spatial & Environmental: GIS, ArcGIS/ArcMap, remote sensing, geospatial analysis, NWS/NOAA data