

MAXIMILIEN BOVING

maxboving@gmail.com | (310) 503-2274 | linkedin.com/in/max-boving | maxboving.com | github.com/maxboving

PROFESSIONAL SUMMARY

AI and data engineer who turns ambiguous product and data problems into working systems across retrieval, high-volume data platforms, applied modeling, APIs, and full-stack products.

TECHNICAL SKILLS

AI / Retrieval Production RAG, GraphRAG prototyping, vector search, retrieval evaluation, prompt testing, LLM cost and latency analysis, tool-based workflows
Languages / Frameworks Python, SQL, TypeScript / JavaScript, FastAPI, Flask, Next.js, React, Vue, Fastify
Data / Cloud PostgreSQL, MySQL, Prisma, Pandas, scikit-learn, Redis, Celery, Docker, AWS, Azure Data Lake Gen2, Microsoft Fabric, Cloudflare D1 / R2 / Vectorize

EXPERIENCE

Full Stack Engineer (Contract)

Jun 2026 - Present

- Saticoy | AI Customer Support Platform
- Diagnosed retrieval failures caused by oversized and irrelevant context chunks, which increased token usage and contributed to inaccurate or hallucinated responses.
 - Built reusable prompt libraries and added GitHub Actions CI tests to validate context formatting and structure before changes reached production.
 - Prototyped a GraphRAG workflow on customer-shaped fixture data, improving the latency and cost profile of multi-hop queries compared with the existing approach.

Co-Founder & Technical Lead

Feb 2026 - Present

- OptoJury | Jury Simulation & Trial Intelligence
- Founded and built OptoJury from the ground up, owning persona development, simulation workflows, the full-stack application, and cloud infrastructure.
 - Rebuilt the persona system after attorneys raised concerns about AI-generated jurors, grounding profiles in Census demographics and established survey data instead of invented biographies.
 - Built a statistically checked pipeline that adjusts population records to county demographics, identifies recurring attitude groups, and generates locally representative panels now under early attorney review.

Data Analyst & AI Engineer Intern

Feb 2026 - May 2026

- HighBeam Analytics | Tariff Intelligence
- Built a searchable prototype tariff tracker and scheduled pipeline that joined product, SKU, and HTS data in Azure Data Lake Gen2 and Microsoft Fabric.
 - Combined LLM classification with regex rules and defined heuristics to suggest likely HTS matches and flag uncertain classifications.
 - Modeled future landed costs with Monte Carlo simulations and presented tariff exposure in Power BI with conditional email alerts.

Technical Lead - Environmental Data & AI Platform

Nov 2025 - May 2026

- Biosphere 3 | University of Arizona
- Turned an uncertain research-platform idea into a near-real-time scientific dashboard, migrating more than 80 million sensor records from a fragile legacy system into PostgreSQL.
 - Built materialized views with 15-minute refresh jobs and designed the API layer, reducing key database queries to approximately 1 ms across more than 10,000 sensor streams.
 - Developed a RAG prototype combining sensor-table queries with retrieval from embedded scientific documents, and led five contributors through task assignment, code review, architecture decisions, and stakeholder coordination.

Technical Lead & Sole Developer

May 2025 - May 2026

- DataRaft / BarSuccess | James E. Rogers College of Law, University of Arizona
- Replaced fragmented departmental spreadsheets with a centralized system for approximately 2,000 student records dating to 1990, including ingestion, ID-based merging, and validation checks.
 - Developed an LLM interface that translated requests into a restricted set of predefined functions for filtering, sorting, and updating large groups of records.
 - Trained a bar-outcome model on approximately 980 student records using fewer than five selected features, reaching 76% accuracy on a held-out 15% test set while prioritizing recall for at-risk students.
 - Developed commercialization strategy through administrator discovery and iterative demos, and presented the work at an AI and data conference.

SELECTED PROJECT & PUBLISHED WORK

Antislop - Published Codex & Claude Skill

2026

- Developer Tooling / Website Review
- Built and tested a product-aware website review skill that catches unsupported claims, fabricated testimonials, generic AI copy, mismatched styles, and credibility problems missed by standard UI reviews.

EDUCATION

B.S. Information Sciences - Data Science Emphasis

May 2026

University of Arizona | Minor in Business Administration
Certificate Google Data Analytics Professional Certificate, 2024

ADDITIONAL

Recognition Earth Shattering Award - Biosphere 3 capstone team
Languages English (Native), French (Basic Proficiency)