

# Maximilien Boving

maxboving@gmail.com | (310) 503-2274 | [linkedin.com/in/max-boving](https://www.linkedin.com/in/max-boving) | [github.com/maxboving](https://github.com/maxboving)

## PROFESSIONAL SUMMARY

Data-focused software engineer and startup co-founder with experience building end-to-end analytics systems, including ETL pipelines, schema design, and API delivery. Built and contributed to production platforms handling 80M+ records, working across Python, SQL, Flask, Azure, and cloud infrastructure. Co-founder of DataRaft, an AI-assisted academic data platform with active deployment at the University of Arizona.

## EDUCATION

**B.S. Information Technologies, Data Science Emphasis | Minor in Business Administration**

*Graduated May 2026*

University of Arizona, Tucson, AZ

- Google Data Analytics Professional Certificate (May–Sept 2024)

## TECHNICAL SKILLS

**Languages** Python, SQL, TypeScript / JavaScript, HTML / CSS

**Frameworks** Flask, Fastify, Vue, React

**Data / ML** Pandas, scikit-learn, Tableau, Power BI, DuckDB, Monte Carlo Simulation

**Cloud / Infra** Azure Data Lake Gen2, Microsoft Fabric, AWS S3, Docker, PostgreSQL, MySQL

**AI** Claude Managed Agents, MCP Integrations, RAG Systems, LLM Integration, ETL Orchestration

**Security / Ops** JWT Auth, Role-Based Access, Signed URL Workflows, API Hardening

## EXPERIENCE

**Co-Founder & Technical Lead 2025 – Present**

*DataRaft*

- Co-founded an AI-assisted academic data management startup, currently deployed at the University of Arizona with additional institutional clients in active pursuit.
- Distributed a Qualtrics survey to data administrators at law schools nationwide, collecting 40 responses: 92% expressed openness to switching tools, 67% reported lacking a centralized database, and 96% rely on Excel or Google Sheets for critical academic data.
- Automated ingestion, storage, visualization, and analysis for 2,000+ student records dating to 1990, replacing a fully manual single-staff workflow and projected to save 4+ hours/day.

**Data Analyst & AI Engineer Feb 2026 – Present**

*HBAnalytics*

- Built an end-to-end Tariff Tracker pipeline (Azure Data Lake Gen2, Microsoft Fabric, Power BI), mapping SIC-to-HTS codes to clarify tariff exposure for suppliers amid trade policy uncertainty.
- Developed a Monte Carlo simulation modeling tariff cost distributions per product, surfacing probability ranges to support supplier decision-making.
- Delivered interactive Power BI reports enabling non-technical stakeholders to explore scenario-based tariff outcomes across product categories.

**Paid Student Developer & Technical Lead May 2025 – Present**

*James E. Rogers College of Law, University of Arizona*

- Sole developer on BarSuccess, an academic analytics platform for law school staff to track and report on bar exam preparation; gathered requirements directly from prospective client institutions, iterated on features through regular demos and critique sessions.
- Designed the data model, reporting layer, and API architecture based on client feedback; decisions directly shaped what staff could query and report on.
- Attended regular TechLaunchAZ commercialization meetings covering product feedback, pricing models, and market outreach strategy.

**Data Science Intern Jan 2025 – May 2025**

*James E. Rogers College of Law, University of Arizona*

- Migrated spreadsheet-based departmental workflows to a relational schema, improving data consistency and access across the team.
- Built ML models in Python (scikit-learn) to analyze factors associated with bar exam outcomes, informing department strategy.
- Delivered recurring Python and Tableau dashboards supporting operational and academic reporting cycles.

## **SELECTED PROJECTS**

### **Biosphere 3 Data Platform Initiative 2026 – Present**

- Supported analytics infrastructure for a research computing environment managing 80M+ sensor records and 10,000+ environmental sensor streams.
- Reduced SQL query latency (~ 1ms) through materialized views and schema redesign, enabling real-time frontend use cases across 80M+ sensor records.
- Prototyped a RAG-based workflow for querying and summarizing high-volume sensor datasets using LLMs.
- Led a team of 5 undergraduate contributors, coordinating data engineering, database architecture, and platform development efforts.

### **Technical Contributor | Sports Ticket Web App Oct 2024**

- Improved seat-to-price mapping in UI components (JavaScript / Vue / SVG) via pull-request collaboration.

## **ADDITIONAL**

- Languages: English (Native), French (Basic Proficiency)
- References available upon request