Aaron Beschorner

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Education

University of Florida Gainesville, FL

Bachelor of Science in Computer Science, Minor in Electrical Engineering *Expected Graduation: May 2026*

Relevant Coursework: Engineering Statistics, Linear Algebra, Data Structures and Algorithms, Database Systems, Data Science for Electrical Engineers, Machine Learning Engineering, Natural Language Processing.

Technical Skills

Programming Languages: Python, SQL, C++, JavaScript
Libraries: pandas, polars, PySpark, NumPy, scikit-learn
Cloud and Analytics: Microsoft Azure, Microsoft Fabric, Azure Machine Learning, Microsoft Excel, Power BI
Engineering: Git, Docker, FastAPI
Languages: English (Fluent), Spanish (Fluent)

Experience

Data Engineering Intern September 2025 – Present

Intempo S.A.S *Bogota, Colombia (Remote)*

- Designed end-to-end data pipelines in Microsoft Fabric using Apache Spark to ingest and transform vehicle registry and tax payment data from SQL Server, enabling production Power BI dashboards for analyzing fleet composition, ownership distribution, and tax revenue.
- Automated a previously manual vehicle pricing process by building a system that matches raw vehicle records (e.g., engine size, fuel type, body style) to official government pricing tables using text normalization and similarity search (Polars, FAISS, Sentence Transformers) deployed via Azure Machine Learning.

Data Science Research Assistant July 2025 – December 2025

University of Florida, EcoPac Research Group *Gainesville, FL*

- Contributed to an NSF-funded research project (Grant #2504177) by cleaning and analyzing large-scale University of Florida institutional data on admissions, coursework, and outcomes, using Python (matplotlib, plotly) and R (ggplot2) to visualize trends in graduation rates, student persistence, and demographic patterns.
- Developed reproducible data workflows to construct student cohorts and derived features from raw institutional tables, enabling consistent cross-year analyses and reuse by faculty and research collaborators.

Machine Learning Research Assistant January 2025 – June 2025

University of Florida, Smart Systems Laboratory *Gainesville, FL*

- Supported a University of Florida Shands Hospital machine learning study evaluating surgical handwashing protocols by annotating hand-action videos using Darwin V7 and implementing state-based logic to provide real-time feedback on protocol adherence.
- Applied machine learning techniques to analyze human movement in a Parkinson's disease study, using multi-camera video data, pose estimation, and time-series alignment to detect bradykinesia from motion patterns.

Projects

Split It | *React Native, JavaScript, Expo, Python, OCR* January 2026 – Present

- Built a mobile app that scans restaurant receipts and automatically extracts itemized data for bill splitting.
- Designed and maintained Expo development environment to support multi-device testing and team collaboration.
- Integrated an OCR-based pipeline to extract receipt text and convert it into structured JSON data.

Vehicle Price Matching Demo | *Python, FastAPI, Polars, FAISS, Docker* September 2025 – December 2025

- Built a clean-room vehicle price matching system using text normalization and vector similarity search.
- Developed a FastAPI service to match raw vehicle records against reference pricing tables in real time.
- Processed and normalized large datasets with Polars and FAISS, containerized with Docker for reproducible deployment.