

# Ben Samson

309-350-9067 | [ben@bensangel.com](mailto:ben@bensangel.com) | [bensangel.com](https://bensangel.com) | [linkedin.com/in/bensangel/](https://linkedin.com/in/bensangel/)

## TECHNICAL SKILLS

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**Programming & Data Tools:** Python (Pandas, NumPy, scikit-learn), SQL, R, JavaScript  
**Data Platforms:** Google BigQuery, AWS Redshift, AWS, Azure, SQLite  
**Statistics & Analytics:** Regression, hypothesis testing, A/B testing, experiment design, EDA, statistical modeling  
**Business Intelligence:** Tableau, Power BI, Looker, dashboards, KPI reporting, data storytelling  
**Data Engineering:** Data cleaning, APIs, ETL pipelines, data pipelines, RESTful APIs, SEC EDGAR  
**Tools:** Git, GitHub, Excel, PivotTables, Power Query

## PROJECTS

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- Benz Intelligence Business Analyzer** | *Next.js, TypeScript, Python, FastAPI* Feb 2025 – Present  
*Live Demo:* [stocks.bensangel.com](https://stocks.bensangel.com)
- Built a full-stack financial intelligence platform with a SQLite-backed RESTful API, integrating **5** data providers into **9** Key Performance Indicators (KPIs), **5** interactive charts, **100-point** health scores, and analyst-style business insights.
  - Developed a resilient Extract, Transform, Load (ETL) pipeline with API-key rotation, provider fallbacks, SEC EDGAR normalization across **14** Extensible Business Reporting Language (XBRL) tags, and layered **1-hour/24-hour** caching.
- Benz Flight Tracker** | *JavaScript, Node.js, Leaflet, OpenSky API* Jun 2026 – Present  
*Live Demo:* [flight.bensangel.com](https://flight.bensangel.com)
- Built a full-stack real-time flight tracking platform using geospatial analytics to process **6,700+** live aircraft records and normalize OpenSky state vectors into a **22**-attribute aircraft data model.
  - Optimized geospatial rendering with viewport filtering, **60-second** caching, and zoom-aware sampling, reducing **6,753** aircraft records to **140** markers at default zoom, a **97.9%** rendering-load reduction.
- Benz On-Chain Wallet Analyzer** | *Python, SQL, Etherscan API, Pandas* May 2026 – Present  
*Live Demo:* [wallet.bensangel.com](https://wallet.bensangel.com)
- Built a Streamlit blockchain analytics product that ingests, normalizes, stores, and visualizes Ethereum wallet activity, validating the pipeline on a **78,187**-transaction historical dataset.
  - Developed resilient Etherscan V2 ingestion with **1,000**-row pagination, **3**-attempt retry handling, recursive block-range partitioning, and a **12**-field blockchain analytics model.

## EDUCATION

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**Augustana College** Rock Island, IL  
*Bachelor of Arts in Business Analytics* Aug. 2023 – Present  
*Minors: Accounting, Communication Studies, and Psychology*

## EXPERIENCE

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- Data Analyst Intern** May 2024 – Aug 2024  
*Institutional Research & EDGE Center, Augustana College* Augustana College, IL
- Wrote SQL queries and cleaned data across **5+** campus data sources, improving reporting accuracy by **20%**.
  - Built **11 recurring reports and dashboards** tracking enrollment, retention, and student outcomes.
  - Conducted trend and cohort analyses identifying **8–12% differences** in retention and progression rates.
- Public Relations Lead - Google Developer Group** Sep 2024 – May 2025  
*GDG Augustana College* Augustana College, IL
- Increased event attendance by **57%** via data-driven outreach.
  - Coordinated flagship events (DevFest, Android Study Jams) with 100+ participants.
- Leadership & Lectures Director** Mar 2024 – Present  
*Office of Student Life - MPB Executive Board* Augustana College, IL
- Directed budgeting and logistics for multi-department events, optimizing resource allocation.
  - Secured official TEDx license and executed Augustana's first TEDx event, attracting 100+ attendees.

## MORE INFORMATION

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**Interests:** boxing, working out, triathlon, movies, traveling, technology, meditation, house music, the office