

# Aharon Zbaida - Resume

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### Data Analyst – Financial & Operational Data | Remote

Data analyst with 15+ years working with structured data in financial services, construction operations, and R&D environments. Combines deep SQL and Python skills with domain expertise in financial analysis, project cost management, and regulatory reporting. Experienced working independently and leading data-driven decision-making in resource-constrained settings.

### Skills

**Data Analysis & Querying:** SQL (PostgreSQL, DuckDB), Python (pandas, NumPy), Excel (pivot tables, VLOOKUP, data modeling) **Visualization & BI:** Tableau, data dashboards, Chart.js, reporting & presentation **Statistical Analysis:** Hypothesis testing, A/B analysis, bootstrap methods, trend analysis, regression **Data & Systems:** Data pipelines, data cleaning & validation, ETL processes, CSV/JSON/API data sources **Domain:** Financial data analysis, cost analysis, project budgeting, regulatory compliance reporting

### Selected Data Analysis Projects

#### Financial Data Analysis Pipeline

Built reproducible analysis pipeline for structured financial data supporting strategy evaluation and risk assessment.

- **Problem:** Needed to analyze large financial datasets across multiple time periods while preventing data leakage between analysis windows
- **Approach:** Built reproducible analysis pipeline with time-aware data splits, cohort segmentation, and automated reporting of key financial metrics
- **Outcome:** Enabled consistent, auditable analysis across multiple financial instruments with clear documentation of methodology and findings
- **Tools:** SQL, Python (pandas), data validation, automated reporting

#### Market Data Statistical Analysis

Evaluated whether patterns in forex market data represent genuine trends or random noise.

- **Problem:** Evaluate whether patterns in forex market data represent genuine trends or random noise
- **Approach:** Applied statistical testing (bootstrap, permutation tests) across 224K records and 24 instruments. Created summary dashboards showing confidence intervals and significance metrics
- **Outcome:** Produced rigorous analysis report with clear visualization of findings — including honest reporting that most apparent patterns did not survive statistical scrutiny
- **Tools:** Python, statistical analysis, data visualization

#### Trading Strategy Performance Dashboard

Built interactive dashboard for evaluating and comparing strategy performance metrics.

- **Problem:** Traders needed a clear way to evaluate and compare strategy performance metrics

- **Approach:** Built interactive dashboard calculating expectancy, risk-reward ratios, and drawdown analysis from trade log data (CSV/manual entry)
- **Outcome:** Live tool used for strategy evaluation with exportable PDF reports
- **Tools:** JavaScript, Chart.js, statistical calculations, PDF generation
- **Link:** [Live Demo](#)

## Professional Experience

### Data Analyst & Researcher | Remote | 2020–Present

- Analyzed financial datasets (224K+ records across 24 instruments) using Python and SQL
- Built statistical validation tools for time-series analysis with automated reporting
- Created interactive dashboards for trading strategy performance evaluation
- Developed data pipelines for cleaning, transforming, and validating market data from API sources
- Technologies: Python (pandas, NumPy), SQL, data visualization, statistical analysis

### Founder & CTO | Peoples' FinTech LLC | Los Angeles, CA | 2017–2020

- Led data platform development integrating multiple financial data sources for analysis and reporting
- Built expectancy calculator dashboard for strategy performance evaluation (live demo available)
- Managed team; responsible for data architecture, analysis methodology, and product roadmap
- Technologies: Python, SQL, data pipelines, dashboard development

### Construction Operations & Cost Analysis | Anitani LLC / Zbaida LLC | NJ | 2002–2020

- Managed project budgets, cost tracking, and financial reporting for residential and commercial construction projects over 18 years
- Created estimates, procurement schedules, and progress reports using spreadsheets and project management tools
- Tracked costs across concurrent project phases; produced variance analysis and budget-vs-actual reports
- Skills: Cost estimation, budget analysis, financial reporting, scheduling, regulatory compliance documentation

### Earlier Roles | 2003–2016

**Programming Manager** – Concord Wealth Management (2007–2008): Led 8-person dev team building financial services platform; data reporting and platform analytics **Project Engineer** – Daren Labs Scientific, Israel (2014–2016): Data collection, analysis, and reporting for R&D projects; time-tracking application development **Research & Algorithm Engineer** – Anitani Solutions (2003–2017): Statistical analysis of financial data; backtesting and performance analysis

## Education

**B.S. Biomedical Engineering** – Rutgers University, 2001 Senior project: Image processing library in Java | Research: Mathematical modeling of cardiac muscle contractility (published)

## Publications

Zbaida, A., et al. “Series Elastic Fiber Damage in Stunned Myocardium.” *American Journal of Hypertension*, v. 13, p. 51A, (2000).

## Open Source

**Hebrew Bible Analysis Suite:** 11-tool computational analysis platform — 304K letters, Web Workers, 3D visualization, WRR replication ([Live](#) | [GitHub](#)) **Expectancy Calculator:** Strategy performance evaluation tool ([Live](#)) **Market Data Statistical Analysis:** Statistical research on forex data ([GitHub](#)) **Automated Strategy Analysis:** Performance evaluation with genetic optimization ([GitHub](#))