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Jonathan Nadeau

Data Analyst | SQL, Python, Excel, Power BI | Operations and Inventory Data

SUMMARY

Data analyst at a Torrance defense and telecommunications electronics manufacturer, where I am the sole developer of internal tools for engineering, quality, and operations. I turn messy ERP, inventory, and test data into reports and tools people use every day, and I check every number against its source before anyone relies on it. B.A. in Mathematics from UC Santa Barbara. U.S. Person, ITAR/EAR eligible.

EXPERIENCE

Data Analyst & Application Developer · Escape Communications, Torrance, CA — Jul 2026 - Present

- Sole analyst and developer for engineering, quality, and operations: built, tested, deployed, and documented **12** internal tools, each with a user guide.
- Rebuilt six undocumented ISO 9001 reports from 20 workbooks and 16 database tables, reproduced four years of results exactly, and found four material errors, one overstated **3.4x**.
- Automated the ERP material shortage report into Excel for the VP of Engineering, replacing about **600** hand-entered values per report, with every row checked against the report's own math.
- Audited inventory records and found bin and transaction quantities agreed on only **27%** of parts (219 of 817), with 84 inactive parts still in live BOMs; flagged a likely cause and scoped a side-by-side report.
- Built a sourcing tool on the DigiKey and Mouser APIs comparing price breaks, MOQs, and lead times; traced a 141-row mismatch to packaging variants and cut three comparable lines from $1,637 to **$647**.
- Built a bill-of-materials checker covering 12 defect types with **427** automated tests, plus an executive dashboard on open orders, shipments, and time-sensitive contract items.
- Made **4,038** hardware failure records searchable by extracting 2,245 component IDs from free-text comments, reviewing the matches by hand before release.
- Build with AI coding assistants under a spec-first, test-verified workflow, keeping sensitive, export-controlled data on local machines.

Lab Technician (Seasonal) · Escape Communications, Torrance, CA — Summers 2017 - 2025

- Performed QA testing and calibration on production hardware; tracked results in Excel with formulas that automatically flagged out-of-tolerance readings.

Mathematics Instructor & Tutor · Mr. J's Academy, Wyzant, Torrance USD — 2022 - 2025

- Delivered **1,500+** hours of instruction explaining technical ideas to varied audiences; promoted to lead tutor with a 50% raise and kept 100% client retention.

PROJECTS

- **Supply Chain Analytics (Oracle SQL, Power BI):** MRP and inventory planning pipeline over 180K orders that surfaced about $597K in excess inventory and a **42.7%** on-time delivery rate.
- **Skechers Financial Model (Excel):** three-statement model built from 10-K filings. **Cohort Retention (BigQuery, Looker Studio).** 18 projects at nadeaujonny.github.io.

SKILLS

SQL: BigQuery, MySQL, Oracle, MS Access

Python: pandas, NumPy, scikit-learn, Streamlit, pytest

BI and Excel: Power BI, Tableau, Looker Studio, Excel

Also: R, Git, REST APIs, ERP data, Claude Code

EDUCATION

UC Santa Barbara, B.A. Mathematics — 2023

UCLA Extension, Data Science Certificate — Expected Dec 2026

Google, Data Analytics Professional Certificate — 2026