

# SCOTT JUE

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## SKILLS

**Programming:** SQL (PostgreSQL, MySQL), Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), R (ggplot2, dplyr, caret, tidyr)

**Data Tools & Platforms:** Snowflake, dbt, Alteryx, Power BI (Power Query, DAX), Tableau, Microsoft Excel

## RELEVANT PROFESSIONAL EXPERIENCE

### La Jolla Institute for Immunology

San Diego, CA

Senior Data Analyst, Financial Planning & Analysis (FP&A)

Jan. 2021 - Present

- Manage data, analytics, insights for La Jolla Institute for Immunology, a \$90M research organization that is dedicated to developing new treatments and vaccines to prevent and cure autoimmune conditions, cancer, and infectious disease
- Reduced liability by \$8.3M over 4 years by identifying and correcting effort reporting discrepancies on research grants
- Automated monthly budget vs. actuals variance analysis across 50+ departments using SQL; reduced monthly manual process work by 5x from 20 hours to 4 hours
- Reengineered Indirect Cost Rate model to optimize for new reporting requirements using Excel (VLOOKUP, INDEX-MATCH, IFERROR, nested IF) to automate data retrieval; leveraged dynamic TEXT formulas to auto-generate explanatory fields and narrative text, improving efficiency and reducing reporting turnaround time by 33% from 3 to 2 weeks
- Built ETL automated workflows in Alteryx to unify siloed data scattered across HR, Effort Reporting, and General Ledger Accounting systems; automated data cleansing and validation tasks resulting in higher data quality and accurate, reliable reporting
- Partnered with Sr. Director, Management Information Systems to optimize data warehouse architecture, improving accessibility and usability of financial datasets
- Collaborated with accounting and BU managers to reconcile variance reporting with expense types and reduced underspend and overspend discrepancies from 10% to 0%
- Optimized quarterly forecasting reporting by creating new workflow to integrate up-to-date effort allocation data; improved data refresh cadence from annual to quarterly

Senior Financial Analyst, Financial Planning & Analysis (FP&A)

Feb. 2013 - Dec. 2020

- Provided critical financial analysis and insights to support strategic decision-making for operations and finance; created, automated, and standardized FP&A reports, 5-year revenue and expense forecast models, quarterly financial reports
- Managed institute-wide annual budgeting process (\$90M) & Indirect Cost Rate proposals; collaborated with 30+ stakeholders to ensure strategic alignment and compliance with NIH grant regulations & OMB's Uniform Guidance
- Created Indirect Cost Rate Proposal calculations, budget templates, and performance dashboards using advanced Excel functionalities, including complex formulas and VBA
- Empowered C-level executives by developing 15 data dashboards and visualizations; provided actionable insights that enabled data-driven decision-making for financial stability, budget management, and strategic financial planning
- Most impactful dashboards included (1) Revenue and Expense dashboard, containing Total Revenue visualizations and Expense actuals vs forecast, Total Revenue mix, Total Expense mix, and revenue diversification recommendations (2) Annual Grant Application Volume and Success Rate chart (3) Annual Revenue (by Source) vs. Expenses plus BD team financial impact and efficiency. (4) Advancement Team Annual Contributions vs. Expenses
- Streamlined Accounting budget import process; utilized Excel VBA to auto-consolidate data inputs from 50+ departments, reducing Accounting staff's manual data entry time by 100% and achieving a fully automated process with 0% error rate
- Optimized systems infrastructure to support analytical and reporting needs; identified key financial processes and translating reporting requirements into technical specifications in Jet Reports for automating monthly and quarterly financial reports
- Conducted financial modeling for strategic initiatives, including KPIs, cash flow forecasting, salary adjustments, CapEx and revenue diversification; collaborated with 30+ dept leaders to enhance forecasting accuracy & effective budgeting

### Calibr-Skaggs Institute for Innovative Medicines

San Diego, CA

Financial & Operations Analyst

Feb. 2012 - Nov. 2012

- Managed annual budget process for \$13M operation; developed financial forecasts and prepared financial statements to enable data-driven decision-making and strategic resource allocation for growth initiatives
- Implemented and optimized the foundation for accounting and payroll/HR systems; designed initial chart of accounts, streamlined financial operations and enhanced organizational efficiency in the startup's critical early stages
- Developed and launched end-to-end Point Purchasing system, resulting in significant supplies cost savings and designed purchasing policies and approval procedures to ensure robust internal controls, supporting financial stability and regulatory compliance

SELECTED DATA PORTFOLIO PROJECTS

- **Airbnb Analytics Engineering (SQL, dbt, Snowflake, Tableau):** Designed and built an end-to-end analytics engineering project using Inside Airbnb data. Ingested raw CSVs into Snowflake and developed staging, dimension, and fact models in dbt to transform the data into a star schema optimized for analysis. Implemented integrated testing and documentation to ensure data quality and model transparency. Built Tableau dashboards showcasing revenue trends, occupancy rates, review volume, and pricing patterns, enabling interactive, stakeholder-focused insights.
- **Global Layoff Analysis (SQL, Python):** Analyzed global layoff data (2020–2023) using SQL to uncover workforce trends across industries, company stages, and time periods. Examined the impact of the COVID-19 pandemic on layoffs, identified clustering patterns of workforce reductions, and compared total layoffs vs. percentage-based layoffs to assess relative impact across companies. Created data visualizations in Python to highlight key insights and provide a comprehensive view of global layoff trends.
- **Data Science Job Market Analysis (SQL):** Analyzed 2023 data analyst job postings using SQL to identify top-paying roles, in-demand skills, and high-value technical competencies. Examined salary trends, skill demand, and the intersection of high demand and competitive salaries to highlight optimal skills for career growth. Explored how different technologies, programming languages, and cloud platforms impact earning potential, providing data-driven insights for job seekers in the data analytics field.

EDUCATION

<b>Northwestern University</b> <b>M.S. in Data Science, specialization in Analytics &amp; Modeling</b> Relevant Courses: Supervised Learning, Unsupervised Learning, Applied Statistics, Decision Analytics, Data Visualization, Database Systems and Data Preparation, Practical Machine Learning, Sports Performance Analytics, Project Management	<b>Chicago, IL</b>
<b>Chapman University</b> <b>B.S. in Business Administration, concentration in Finance &amp; Entrepreneurship</b>	<b>Orange, CA</b>

CERTIFICATIONS

Associate Data Engineer in SQL (DataCamp)	Associate Data Engineer in Snowflake (DataCamp)
Associate Data Analyst in SQL (DataCamp)	Google Data Analytics Certificate (Google, Coursera)
dbt Fundamentals (dbt Labs)	Data Analyst Nanodegree (Udacity)
Data Analyst in Power BI (DataCamp)	Predictive Analytics for Business Nanodegree (Udacity)