Lucas Sam

Data Analyst | Singapore | +65 9222 5186 | lucas.sam93@gmail.com

Professional Summary

Data Analyst with a background in coaching and psychology, specializing in turning messy, real-world datasets into clear narratives that drive better decisions. I recently designed and launched an AI-orchestrated web application that parses complex job descriptions to provide career-transitioners with actionable "Skills Match" and "Impact" coaching. By bridging the gap between technical data and human behavior, I excel at translating sophisticated analysis into simple, high-impact insights for non-technical stakeholders. I am a high-velocity problem solver proficient in SQL, Python, and Tableau, with a proven ability to leverage AI-assisted tools to automate workflows and build functional analytical products from the ground up.

Technical Skills

Programming & Database: SQL (PostgreSQL, SQLite), Python (pandas, NumPy), SQL query optimization, data extraction.
Data Visualization: Tableau, Power BI, Excel, Dashboard Design.
Tools & Platforms: Git/GitHub, Jupyter Notebooks, VS Code.
Business Skills: Data storytelling, Stakeholder Communication, Performance Monitoring, Strategic Analysis.
AI & Productivity Skills: Prompt Engineering, Claude Code, Workflow Automation, System Design via LLMs, Iterative Logic Refinement, AI-Assisted Web Development.

Projects - https://lucas-sam93.github.io/

AI-Powered Job Description Optimizer
Lead Developer (AI-Assisted) | February 2026
- Built a web application to help job seekers instantly see how well their CV matches a job description, specifically designed to solve the "black box" problem of automated hiring systems.
- Managed the full development lifecycle by using Claude Code to generate the codebase, acting as the primary auditor to ensure the logic for scoring "Skills Match" and "Impact" was accurate and helpful.
- Designed the data flow for parsing both PDF and Word documents, ensuring the tool could extract and analyse raw text without losing context or formatting.
- Simplified the user interface by replacing technical jargon with clear, actionable coaching—like changing "Tech Match" to "Skills Matched"—to make the data easier for non-technical users to digest.
- Tested and refined the tool using my own CV during a career transition to ensure the scoring provided meaningful improvements for real-world applications.

UK Gender Pay Gap Analysis | SQL
- Analysed 80,000+ company records using SQL (window functions, CTEs) to identify gender pay disparities across 20+ industries, revealing a 13% leadership representation gap—1.5x larger than the pay gap itself.
- Leveraged AI tools to generate an interactive dashboard with drill-down capabilities to visualize sector-specific trends

Professional Experience

Freelance Personal Trainer | Self-Employed, Singapore
January 2022 – Present
- Analysed longitudinal physiological data for 70+ clients across 4+ years, identifying trends and optimizing training interventions.
- Developed data-driven assessment frameworks to monitor client progress, detecting performance plateaus 3-4 weeks earlier than traditional methods and enabling proactive protocol adjustments.
- Synthesized complex nutritional research and client dietary data (caloric intake, macronutrient distribution, meal timing) into actionable meal plans, improving client adherence rates by 35%.
- Translated scientific literature and statistical findings from sports science journals into evidence-based training recommendations for non-technical clients, maintaining 92% client retention rate.

Personal Trainer | PURE Fitness, Singapore
January 2020 – December 2021
- Designed measurable training and nutrition protocols with defined KPIs, conducting bi-weekly assessments to track progress against baseline metrics and adjust programming based on data insights.
- Leveraged performance data and visual reporting to demonstrate ROI to prospective clients, converting 60% of consultations into 12+ week training packages.

Education

University at Buffalo, State University of New York
Bachelor of Arts in Psychology | June 2016 – June 2019
- Concentration in quantitative research methods, experimental design, and psychometrics
- Relevant coursework: Statistics for Behavioural Sciences, Research Methods, Experimental Design, Data Analysis, Cognitive Psychology.
- Developed foundational skills in statistical analysis (ANOVA, regression, correlation), hypothesis testing, data cleaning, and interpreting behavioural/experimental datasets using SPSS.

Certifications

Google Data Analytics Professional Certificate | Coursera | December 2025
- Completed 8-course series covering data cleaning, analysis, visualization, and SQL fundamentals.
- Hands-on projects using spreadsheets, SQL, Tableau, and R for real-world business scenarios.