

Vincentius Daniel Budidharma

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EDUCATION

University of California San Diego

September 2023 - March 2027 (expected)

B.S. in Data Science, Minor in Economics and Mathematics

- **GPA:** 4.0/4.0
- **Relevant Coursework:** Data Science (Pandas), Scalable Analytics (Spark/Hadoop), Databases (SQL), Data Visualization, Statistical Inference, Machine Learning (Random Forests, Markov Models), Deep Learning (Neural Networks, PyTorch)

WORK EXPERIENCE

Budget Analysis & Planning Intern (Analytics Engineering)

June 2026 – September 2026

UC Office of the President

Oakland, CA

- Built the first **ETL pipeline** (SQL, Python, AWS Glue) that consolidated 25M+ records from legacy IBM DB2 and AWS S3 into a unified dataset spanning 2003–present, enabling UCOP's **first** end-to-end analysis of over 2 decades of financial data
- Spearheaded development of a centralized analytics platform (Next.js, Node.js, D3.js) that unified dashboards and datasets across UC Finance departments into a self-service portal, **reducing analyst work by 10+ hours/month**

Data Science Intern

September 2025 – May 2026

Data Science Alliance

San Diego, CA

- **Automated 2+ hours of daily manual work** in a food bank serving 400k+ residents by developing an optimization model (Python) to automate vehicle routing, integrating demand data, capacity constraints, and Google Maps API travel times
- Built a **React + FastAPI** web interface enabling non-technical staff to easily generate optimized delivery schedules

Back-End Developer

January 2025 – May 2026

San Diego Zoo Wildlife Alliance

San Diego, CA

- Engineered a SQL database system enabling **efficient labeling of 15,000+ audio clips** in our data annotation pipeline
- **Developed a real-time dashboard** measuring relevant research metrics, **sped up loading by 30 seconds** by implementing server side pagination and SQL query optimization

Data Science Tutor

March 2024 – May 2026

University of California San Diego

San Diego, CA

- Tutored 100+ students per quarter in Python, Regression, Statistical Inference, Hypothesis Testing, Probability
- **Saved 10+ hours of manual work each quarter** by building a **Python-based grading ETL pipeline** to extract 200+ rows of data from various grading sources, calculate final scores, and report them in Canvas

Economics Research Assistant

January 2025 – March 2025

Decentralizing Development: Structural Transformation Effects of Indonesia's Village Fund

San Diego, CA

- Transformed fragmented Indonesian GDRP data **from 10 different PDFs** into **clean, analyzable CSVs** (pandas, pdfplumber), enabling efficient quantitative analysis by the research team
- **Built 15+ time-series visualizations** (R) to compare economic variables across districts, supporting data-driven conclusions

PROJECTS

Regression Analysis of Stock Price Correlations During the AI Boom

October 2025 – December 2025

<https://vdanielb.github.io/stock-market-inference/>

- Cleaned and combined data from yahoo finance, FRED, and earnings reports to investigate tech stock returns during the AI boom. Performed exploratory data analysis via matplotlib visualizations and statistical hypothesis testing of key factors
- Conducted a **regression analysis** with interaction terms to identify a statistically significant change in NVIDIA's log return correlations following the AI boom, ($R^2 = 0.54$), and identifying a 4x increase in EPS sensitivity post-AI boom

Data Visualization of Food Waste in the United States

June 2025

<https://vdanielb.github.io/FoodWasteWatch/>

- Built an **interactive dashboard** using D3.js to visualize **10,000+ rows across 3 tables** of complex U.S. food waste data into accessible visual stories, helping users grasp the scale and personal impact of the issue
- Awarded **Best Project** in a data visualization course for effective storytelling and communication

SKILLS

Data & Analysis Tools: SQL, Python (Pandas, Matplotlib), R, Excel, Tableau, Plotly.js

Statistical Methods: Regression Analysis, Hypothesis Testing, A/B Testing, Data Cleaning, Data Visualization, Dashboarding

Machine Learning: PyTorch, scikit-learn