

TOM TRAN JR

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Education

University of San Francisco

M.S. in Data Science

San Francisco, CA

July 2025 – Present

University of California, Los Angeles

B.S. in Applied Mathematics

Los Angeles, CA

June 2023

- Relevant Coursework: Linear Algebra, Probability, Statistics, Numerical Methods I & II, Algorithms, Mathematical Modeling, Analysis, Complex Analysis

Professional Experience

Data Analyst

Washington, D.C. (Remote)

U.S. Department of State, Public Diplomacy & Public Affairs

Sept 2022 – June 2023

- Built a **Python ETL pipeline** to scrape, clean, and consolidate structured and unstructured data from **20+ sources**, generating **182+ country profiles** for a congressionally mandated State Department report, replacing weeks of manual research assistant effort.
- Analyzed **3+ years** of enterprise Zoom activity using **SQL and Python**, applying **NLP techniques** to meeting titles, descriptions, and chat logs that informed department-wide digital engagement strategies.
- Designed interactive **dashboards** in Google Sheets to monitor and forecast the **\$2M Zoom for Government** loan program, enabling **data-driven optimization** of annual license procurement and reducing excess spend.

Project Manager

San Francisco, CA

Gateway Roofing and Waterproofing Inc.

Mar 2021 – Sept 2022

- Centralized and secured **organizational data** by leading the implementation of a **Network Attached Storage (NAS) system**, overseeing setup, configuration, and full-scale migration to enable **automated backups**, **reproducible file access**, and **remote collaboration** across teams.
- Developed custom **Python automation scripts** to streamline reporting and document workflows, creating lightweight, **reproducible alternatives** to enterprise software and improving team efficiency by **16%**.
- Analyzed **operations and stakeholder data** to optimize **scheduling and resource allocation** across **10+ concurrent contracts (\$30K+ each)**, improving **decision-making effectiveness**.

Leadership & Volunteer Experience

Aircraft Electrical and Environmental Systems Specialist

Mountain View, CA

129th Rescue Wing (129 RQW)

Oct 2023 – Present

- **Support mission readiness** of a fleet of **10+ aircraft** by analyzing electrical and environmental system data, ensuring operational safety for civil search and rescue, CAL FIRE, and counterdrug missions.
- **Collaborate with cross-functional teams** of pilots, engineers, and maintenance crews to diagnose and troubleshoot **15+ aircraft systems**, reducing downtime and enabling rapid deployment of aircraft in mission-critical situations.
- **Synthesize and communicate insights** from **30+ technical orders (400+ pages each)** and evolving documentation into actionable guidance, ensuring compliance and alignment across diverse stakeholders.

Volunteer Math Tutor

Remote

Independent

Apr 2021 – Mar 2024

- Mentor advanced elementary students through weekly 1:1 tutoring, building long-term confidence in algebra, geometry, probability, and proof techniques while fostering critical thinking and problem-solving skills.

Projects

Instagram SQL Database Clone

August 2025

- Created a mock Instagram database clone in SQL to practice CRUD operations and analytical queries; explored user activity, content engagement, and hashtag usage.

Derivation for the Volume of an n -Sphere (Honors Project)

December 2019

- Authored a 10-page paper deriving the formula for the volume of an n -dimensional sphere; typeset in L^AT_EX.

Technical Skills

Languages: Python (Pandas, NumPy, Matplotlib), SQL, Bash

Tools: Git, GitHub, GCP, Microsoft Office, Google Workspace