

Tomas Fernandez' CV

Data Analyst, Physicist, Husband, Father

My LinkedIn profile | My GitHub portfolio

Currently

Data Analyst II at CorVel Corporation (working remotely), leveraging SQL, Python, and AI tools to drive strategic business decisions through data analysis and visualization.

Specialized in

Data analysis, data visualization (Tableau, Power BI, Excel), SQL, machine learning models in Python (Decision Trees, Random Forests and Linear Regression), creation of C# applications, and physics-related computational applications.

Research interests

Monte Carlo simulations, computational fluid dynamics (CFD), statistical analysis, data-driven decision-making, and process optimization.

Education

2023 - Present **Brigham Young University - Idaho, Rexburg, ID**

B.S. in Physics with a minor in Computational Physics

Key Projects:

- Simulated fluid behavior in various scenarios using OpenFOAM, analyzing velocity profiles, pressure distributions, and vortex dynamics to gain insights into complex fluid phenomena.

- CFD analysis for Formula SAE car (5% drag reduction)
- Developed a predictive model using machine learning algorithms to simulate planetary motion, accurately forecasting orbital trajectories and celestial body interactions, and demonstrating the application of AI in astrophysical research.

2018 – 2023 **Ensign College, Salt Lake City, UT**

Associate of Business Management - Data Analytics

Key Projects:

- Designed and implemented a comprehensive database for a fictional e-commerce company, creating tables, relationships, and indexes to support efficient data retrieval and analysis.
- Developed interactive dashboards for the World Cup 2022 using PowerBI, providing insights into team performance, player statistics, and fan engagement through dynamic visualizations and data storytelling.

Experience

February 2023 – Present **CorVel Corporation, Portland, OR**

Data Analyst II

- Extract, manipulate, and analyze data using SQL to support decision-making.
- Clean and preprocess data for integrity and visualization readiness.
- Create Excel and Power BI dashboards and visualizations for stakeholders.
- Collaborate with cross-functional teams to deliver actionable insights.

September 2020 – February 2023 **Weave Communications, Lehi, UT**

Sales Operations Analyst

- Managed Salesforce lead database, increasing revenue per lead by 25%.
- Led daily scrum meetings using agile methodologies.
- Developed team-wide reports and dashboards for performance tracking.
- Improved lead sourcing by 44% through event and conference strategies.
- Managed JIRA for project tracking and process optimization.