Sophia Taylor

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EDUCATION

California Polytechnic State University, San Luis Obispo — San Luis Obispo, CA
Bachelor of Science in Statistics, Minor in Computer Science — *Sep 2022 - Jun 2026*
GPA: 3.6

Relevant Coursework: Data Structures, Introduction to Computing, Fundamentals of Computer Science, Statistical Computing with R, Statistical Computing with SAS, Applied Experimental Design & Regression Models, Statistical Communication, Calculus I, II, & III

Activities and Societies: Women Involved in Software and Hardware (WISH), Camp PolyHacks

PROJECTS

Financial Dashboard — Feb 2025 - Mar 2025
Python, JavaScript, SQL, PostgreSQL, Supabase — *San Luis Obispo, CA*

- Developed a full-stack Stock Market Dashboard using Supabase (PostgreSQL), featuring real-time market data visualization and interactive charts powered by Plotly.js
- Engineered advanced technical analysis features including moving averages, RSI (Relative Strength Index), and volatility calculations, providing users with comprehensive market insights
- Implemented a scalable data pipeline to process and analyze stock market data, including automated daily price updates and volume analysis for multiple securities
- Developed RESTful APIs for real-time stock tracking, enabling dynamic market insights
- Designed and implemented a robust database schema in PostgreSQL with optimized views for performance metrics, including daily returns and moving averages

HealthNex.AI — Dec 2023 - Jan 2024
https://healthnex.vercel.app/ — *San Luis Obispo, CA*

- Designed, developed, and deployed a web application to digitize patient intake forms for the Noor Clinic in San Luis Obispo, streamlining the check-in process for enhanced efficiency, aimed at supporting underrepresented individuals in accessing healthcare
- Developed a responsive front-end with JavaScript and TypeScript, ensuring seamless user experience across devices
- Collaborated with backend developers to integrate API endpoints, achieving end-to-end system functionality

Data Analysis of CO2 Emissions and Population Growth — Jan 2025 - Feb 2025
SAS — *San Luis Obispo, CA*

- Designed and implemented an animated data visualization in SAS to analyze the relationship between CO_2 emissions and population trends across 50+ years, leveraging the Gapminder dataset
- Developed a reusable SAS macro to automate the generation of time-series GIF animations, iterating through annual data using PROC SGPLOT and ODS GRAPHICS to enhance visualization clarity
- Optimized data visualization techniques, selecting appropriate axis scaling, marker attributes, and animation settings to effectively convey trends in industrialization, sustainability, and population growth

EXPERIENCE

Analytics Intern — Sep 2022 - Nov 2023
Slover Center for Sports Medicine — *San Luis Obispo, CA*

- Optimized inventory management for practice/game equipment, reducing setup time by 25% through data-driven allocation strategies
- Utilized a comprehensive data collection process to monitor and assess the team's health status during pre-participation physicals for 120+ athletes

TECHNICAL SKILLS

Languages: Python, R, SAS, SQL

Tools: Tableau, JMP, GitHub, Supabase, Visual Studio Code, PyCharm, Microsoft Excel, Word, PowerPoint, Outlook