# Xavier Speropoulos

279-201-4733 | speropoulos@gmail.com | linkedin.com/in/xaviersperopoulos/ | github.com/speropoulos

## EDUCATION

**University of California Santa Barbara** — Graduated June 2022
*Bachelor of Science in Statistics and Data Science* — *Santa Barbara, CA*

## PROJECTS

**Uber Trip Record Data Modeling and Dashboard** — June 2023 – Present
- Constructed a fact and dimension data model using an Uber Trip Record dataset and wrote transformation code in **Python**, enhancing data organization and processing
- Deployed the code on a **Google Cloud Compute Engine** using **MAGE**, and loaded the transformed data into **Google Cloud's BigQuery** for advanced analytics
- Utilized **Google Cloud's Looker Studio** to create an interactive dashboard, providing insightful visualizations and facilitating data-driven decision-making

**Batch Processing ETL Data Pipeline** — June 2023 – Present
- Engineered a robust **ETL** pipeline using **Python** and **Selenium**, automating extraction and transformation of specific tables from the company's CRM system
- Leveraged **Apache Airflow** for workflow management, deploying the **Python** code on an **Amazon EC2** Ubuntu machine, ensuring efficient execution of tasks
- Loaded the transformed data into an **Amazon S3** bucket, providing a robust and scalable storage solution for the extracted data

**Inventory Management System** — January 2023 – Present
- Built a comprehensive inventory management system using **C#, .NET, and Microsoft SQL Server**, incorporating a three-tier application architecture for maintainability and scalability
- Developed a relational database schema in **Microsoft SQL Server** and implemented core features including product management, inventory tracking, order and supplier management, user access control, and dynamic reporting, facilitating comprehensive inventory control and business insights.

## EXPERIENCE

**Software Engineer** — August 2022 – January 2023
*E-Filliate* — *Sacramento, CA*
- Developed an internal business tool using **C#, .NET, Microsoft SQL Server, HTML, CSS**, and **Entity Framework**, enabling efficient management and migration of a large product catalog of over 1000 items into Shopify
- Implemented an automation pipeline for effortless product catalog integration with Amazon using **Shopify Admin REST API**, and utilizing metadata from internal systems to streamline product listing creation.
- Solely led the deployment of a full-stack web development project, including an email microservice, leveraging technologies such as **Blazor, .NET, C#, HTML**, and **CSS**

**Data Engineer Intern** — Sept. 2021 – Jun. 2022
*Center for Information Technology & Society Laboratory* — *Santa Barbara, CA*
- Engineered an **ETL** data pipeline, extracting Reddit and Twitter data, transforming it from Zstandard to JSON, and loading it into **Apache Spark**, enhancing data accessibility and analysis.
- Wrote **Python** scripts for data collection and built a web scraping pipeline for Twitter and Reddit data, contributing to efficient dataset creation.
- Managed the collection and cleaning of over 1TB of lossless compressed files, facilitating their use in statistical analysis for a published paper.
- Conducted A/B testing using Twitter and Reddit account activity, performed **NLP Sentiment Analysis** on cleaned data, and generated a comprehensive report using Apache Spark, providing insights into user sentiment towards a specific documentary.

## SKILLS

**Languages**: Python, SQL, C#, JavaScript, TypeScript, HTML, CSS, R
**Developer Tools**: AWS, Google Cloud, Azure Cloud, Apache Airflow/Kafka/Spark, Snowflake, MAGE
**Frameworks**: Django, Flask, MongoDB, .NET, Entity Framework, React, Blazor