

Demetrios J. Kopatsis

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EXPERIENCE

E-Commerce Data Engineer

Glendale, CA

LA Balloons

May 2023 – Present

- Architected a scalable PostgreSQL sales analytics database integrating Shopify, WordPress, and CSV data streams; enabled advanced, segmented financial reporting delivered via stylized Excel files for end users
- Led backend management for product metadata across Shopify and WordPress, implementing structured data models to standardize internal and customer-facing information for product pages and listings
- Built a custom Python-based automation pipeline for Etsy API to fully manage product listings and order fulfillment, driving efficiency across an external sales channel portfolio including Walmart and Amazon
- Developed a Python and Selenium-based automated data extraction tool from scratch to capture competitor pricing on Amazon and Walmart, enabling real-time insights for dynamic repricing
- Owned SEO optimization pipeline including keyword strategy, metadata structuring, and collection management, consistently securing first-page to first-result Google and Bing ranking for key products

Testing & Vaccine Logistics Administrator

Los Angeles, CA

AMI Expeditionary Healthcare

Jan 2022 – Sept 2022

- Managed student and staff COVID-19 vaccination and testing records within the LAUSD district database, ensuring data was accurately updated and maintained in alignment with district protocols
- Collaborated with elementary, middle, and high school administrative staff to guide logistics for in-school testing and vaccination services across the San Fernando Valley region of the district
- Gained comprehensive knowledge and expertise in COVID PCR/Rapid test and Moderna vaccine protocols

EDUCATION

University of California, Los Angeles (UCLA)

Exp Grad Mar. 2027

Master of Science in Data Science Engineering - In Progress

- Relevant Expected Coursework: Big Data Analytics, Advanced Data Mining, Machine Learning Algorithms, Neural Networks & Deep Learning, and Natural Language Processing
- Curriculum includes deep learning libraries (PyTorch, TensorFlow) and distributed computing (MapReduce)

Oregon State University

Grad Dec. 2024

Bachelor of Science in Computer Science

GPA: 3.86

- Relevant Completed Coursework: Data Structures, Web Development, Advanced Algorithms, Software Engineering I & II, Computer Networks, Database Administration, and Cloud Application Development

California Polytechnic State University, San Luis Obispo

Grad Jun. 2020

Bachelor of Science in Business Administration

- Dual Concentration in Finance and Accounting with College of Business Dean's List and President's List Honors

CORE PROJECT

Internal Sales Report Platform - LA Balloons | PostgreSQL, Go, Python, Excel

Dec 2023 – Present

- Built a scalable reporting platform for sales and financial analytics with Go and Python automation for ETL, integrating Shopify, WordPress, and CSV data into a centralized PostgreSQL database
- Automated monthly revenue analysis and quarterly tax remittance reporting with Excel output, segmented by customer type, sales channel, and region, streamlining financial insights and compliance
- In process of refactoring to a dbt, Clickhouse, Lightdash system for enhanced performance and extensibility

TECHNICAL SKILLS

Programming Languages: Python, Go, JavaScript/TypeScript, HTML, CSS, VBA, SQL, T-SQL

Libraries: Excelize, Openpyxl, Pandas, NumPy, Scikit-learn, Matplotlib, Selenium, BeautifulSoup, PyMuPDF

Frameworks/Databases: Gin, Flask, FastAPI, SvelteKit, MongoDB, Redis, MySQL, PostgreSQL, SQL Server

Developer/Data Tools: Git, GitHub, Docker, GCS, AWS, Azure, Snowflake, Clickhouse, dbt (Data Build Tool)

BI/Other Technologies: Microsoft Excel, Access, Power BI, Tableau, Looker Studio, Lightdash, WordPress, Shopify