Demetrios J.Kopatsis

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EXPERIENCE

E-Commerce Data Engineer — May 2023 – Present
LA Balloons — *Glendale, CA*

- Architected and implemented a local performant ClickHouse data warehouse, integrating Shopify and WordPress APIs to centralize and structure e-commerce sales data including order, product, and customer information
- Developed robust dbt models for transformation, data quality testing, and normalized representation of orders, customers, products, and transactions, enabling the most accurate segmented analytics
- Automated generation of executive-ready Excel reports using Python, pandas, and openpyxl based on ClickHouse queries, complemented by interactive dashboards built with Lightdash to support data-driven decision making
- Built a custom Python automation tool to extract competitor pricing data using Selenium and manage Etsy product listings creation, enabling streamlined pricing analysis and hands-free operations across sales channels
- Built a Postgres-based product tracking system using Python and TimescaleDB to monitor and record field-level changes to Shopify variant and metafield data, enabling full timestamped auditability across all attributes

Testing & Vaccine Logistics Administrator — Jan 2022 – Sep 2022
AMI Expeditionary Healthcare — *Los Angeles, CA*

- 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) — Jun 2025 – 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 — Sep 2022 – 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 — Sep 2016 – 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 Analytics Platform | *Python, ClickHouse, dbt, Lightdash, Excel* — Dec 2023 – Present

- Python ingests e-commerce data from Shopify/other APIs, covering orders, products, customers, and transactions
- Transformation layer built with dbt with tested, normalized models, enabling accurate segmented analysis
- Modeled data stored in local high-performance ClickHouse warehouse, optimized for efficient analytical querying
- Automated Excel file creation via pandas and openpyxl, delivering highly detailed tax and segmented sales reports
- Interactive dashboards built with Lightdash for self-serve exploration of performance metrics and sales insights

TECHNICAL SKILLS

Languages/Frameworks: Python, Go, SQL, T-SQL, JavaScript/TypeScript, FastAPI, Django, Flask, Gin
Libraries/ORMs: Pandas, NumPy, Openpyxl, Excelize, Selenium, BeautifulSoup, Matplotlib, SQLAlchemy, GORM
Data: PostgreSQL, SQL Server, MySQL, MongoDB, TimescaleDB, ClickHouse, Snowflake, BigQuery, Airflow, dbt
Infrastructure/Cloud Tools: Docker, Kubernetes, Terraform, Git, GitHub Actions, AWS, GCS, Azure, Grafana
Business Intelligence/E-Commerce: Excel, Power BI, Tableau, Looker Studio, Lightdash, Shopify, WordPress