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VICTOR CHANG

Software Engineer with experience building and deploying cloud-hosted web applications, developing data-driven solutions, and automating workflows using Python, SQL, and modern web technologies. Skilled in full-stack development with Django, relational databases, REST APIs, and cloud infrastructure.

TECHNICAL SKILLS

Frameworks & API | Django, FastAPI
Databases | PostgreSQL, MySQL, Supabase
Languages | Python, SQL, KQL, HTML, CSS, JavaScript
Cloud & DevOps | Digital Ocean, Git, GitHub, Linux, CI/CD
Data & Analytics | Pandas, Numpy, Power BI, Matplotlib, Scikit-learn
Concepts | OOP, RDBMS, ETL, ML, Data Modeling, Agile Development

EDUCATION

Masters, Business Administration | Regent University - 2026
Data Development Immersive Boot-camp | Galvanize, Inc - 2025
Bachelor of Science, Mechanical Engineering | University of South Florida - 2019

PERSONAL PROJECTS

ChangFamFoods| Django Application

- Built and deployed full-stack web application using Django, PostgreSQL, HTML, CSS, and JS.
- Designed RDBMS and implemented authentication, authorization, and user account management.
- Developed RESTful endpoints and for creating, storing, and managing application data.
- Managed production deployments and configurations on a Linux-based DigitalOcean server.
- Leveraged AI-assisted development tools to accelerate feature development and debugging.

English Premier League & La Liga | Prediction App

- Designed and implemented automated data ingestion pipelines integrating multiple external APIs.
- Developed Python services for data transformation, validation, and feature engineering.
- Built reusable workflows for model training, evaluation, and prediction generation.
- Stored and managed historical data using RDBMS and version-controlled development practices.

PROFESSIONAL EXPERIENCE

University of Michigan ECRT – Remote
Business Intelligence Analyst

February 2026 – Present

- Designed and maintained automated ETL workflows to ingest, transform, and deliver operational data for enterprise reporting applications.
- Developed relational data models and reusable reporting layers that improved data accessibility and reduced report development time by 90%.
- Collaborated with cross-functional stakeholders in Agile environments to translate business requirements into scalable technical solutions.
- Automated data validation and transformation processes using SQL and Python to improve data quality and reliability.

Microsoft – Remote
Product Manager Intern

August – December 2025

- Created advanced Kusto queries and data transformation logic supporting analysis across more than 20,000 Azure services, reducing manual data collection time by 40% and improving accountability for incident and action-item management.
- Developed dynamic Power BI dashboards with statistical measures and interactive slicers, reducing time-to-insight for engineering leadership from hours to minutes.
- Developed Python-based scoring models and automated analytical workflows processing large Azure service datasets to identify high-risk service ownership patterns and operational trends.

US Army Special Operations Command – Fayetteville, NC
Data Analyst

2021 – 2025

- Contributed to the development of enterprise web applications using React, TypeScript, PostgreSQL, and Tailwind CSS.
- Supported implementation of application features, database queries, and workflow automation capabilities.
- Collaborated with cross-functional teams to improve application usability, performance, and data accessibility.
- Applied data visualization and analytics techniques to support operational decision-making.