

# VICTOR CHANG

FLUSHING, MI

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## DATA ANALYST | MECHANICAL ENGINEER

Data analyst with expertise in Python, MySQL, and machine learning, combining engineering and military experience to extract insights from complex datasets. Familiar with analyzing trends, leveraging advanced visualizations to identify key patterns. Passionate about transforming data into strategies that drive efficiency and business impact. Education and skills supported by an ongoing Management in Business Analytics organization and Top-Secret Clearance with SCI. Key skills include:

- Matplotlib, Seaborn, plotly
- Statsbombpy, SportMonks
- Numpy, Pandas
- Regression and Classification
- Scikit-Learn, Statsmodels
- Excel, PowerBI
- FastAPI, Render, Streamlit
- Python, MySQL, sqlite
- mplsoccer

## PROFESSIONAL EXPERIENCE

### US Army Special Operations Command – Fayetteville, NC

#### Data Analyst Intern

2025 - Present

- Analyzed 2024–2025 EPL season data from 380+ matches, uncovering key goal-scoring trends and shot patterns using Python (Pandas, NumPy) and SQL on 50,000+ rows of match data.
- Built and deployed a predictive web app using FastAPI (backend) and Streamlit (frontend) on Render, integrating SportMonks and StatsBombpy APIs datasets.
- Deployed machine learning models with scikit-learn for match outcome and goal scoring predictions; containerized with Docker and hosted on Render for scalable access.
- Created 20+ visualizations (heatmaps, scatterplots, histograms) with Seaborn, Matplotlib, and mplsoccer to identify high probability scoring areas.

### US Army Psychological Operations 1<sup>st</sup> Battalion - Fayetteville, NC

#### Psychological Operations Specialist

2022 - 2025

- Automated personnel tracking and reporting for 200+ personnel, increasing operational efficiency by 50%.
- Conducted cost analysis of business travel, reducing expenses by 20% and saving \$10,000 per trip.
- Built data tracking systems in Excel and surveys to enhance decision-making for charity initiatives aiding 1,000+ families.
- Increased media engagement by 60% through data analysis of press and social media metrics.

## EDUCATION

**Masters, Business Administration** | Regent University – 2 years completed

**Bachelor of Science, Mechanical Engineering** | University of South Florida – 2019

**Bachelor of Science, Biology** | University of South Florida – 2016

### *Specialized Training/Certifications*

IBM Data Analysis with Python Certificate, NUARI 40-Hour Data Science Course, Language Program Manager, Taskings Coordinator Manager, Advanced Interpersonal Communication Skills, Influence and Communication, Cultural Analysis