

John Paul Feliciano

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Education

Oregon State University	Bachelor of Science in Computer Science	March 2025
California State University, Fullerton	Bachelor of Science in Public Health	May 2020

Skills

Software Development:	Python, C, SQL, HTML, CSS, JavaScript, Flask, Node.js, Express, React, Git
Data & Analytics:	MySQL, MongoDB, SSMS, Power BI, Jupyter Notebook, pandas, NumPy, Matplotlib, XGBoost, Visio, Scikit-learn, ETL

Experience

IEHP, Rancho Cucamonga, CA	Software Engineer Intern	June 2024 – December 2024
<ul style="list-style-type: none">Built Python script to fetch provider data via NPPES NPI API, cutting 100,000-row processing to 60 secondsDeveloped Excel and Power BI reports for internal controls, identifying inefficiencies in business operationsSecured SSMS data warehouse access and created an ERD, improving database interpretation for finance teamsPerformed ad-hoc data analysis for leadership, extracting insights from large datasets using SQL and PythonDesigned Visio flowcharts to map accounts payable controls, detecting fraud, waste, and abuse patternsAnalyzed vendor contracts using Conga, Bonfire, assessing renewal justifications, and sole/single source validity		
Vinh Sanh Trading, City of Industry, CA	Data Entry Associate	July 2022 – December 2022
<ul style="list-style-type: none">Entered sales orders into SBT system for invoice processingCreated a Google Drive spreadsheet with dropdowns and data validation for invoice organizationPrinted and sorted invoices for sales representatives to facilitate order fulfillment		

Projects

Levrum Data Technologies	Real-Time 911 Call Forecasting	GitHub Repository
<ul style="list-style-type: none">Developed a Python-based EMS call prediction system using XGBoost and historical dispatch dataProcessed and cleaned EMS dispatch data, extracting time-based features for trend analysisEngineered cyclical time features for improved modeling, capturing hourly, daily, and monthly call patternsTrained an XGBoost regressor on past EMS call dataPredicted future EMS call volumes for known locations, enhancing resource allocation and dispatch planningBuilt an interactive Folium heatmap visualizing predicted EMS call hotspots for better response planning		
IEHP	Risk Assessment and Invoice Fraud Detection System	GitHub Repository
<ul style="list-style-type: none">Built a Python tool to process and analyze invoices, assigning risk ratings for fraud detection and complianceAutomated data ingestion and cleaning, converting invoice dates to datetime objects for validation and comparisonDeveloped NLP preprocessing using NLTK to tokenize, stem, and remove stop words from invoice descriptionsImplemented TF-IDF vectorization and DBSCAN clustering to detect similar invoices and flag potential fraudDesigned custom risk checks to detect duplicate payments, missing documents, and threshold violationsCreated risk scoring models that classify transactions based on department policies and audit inconsistenciesEngineered custom validators to flag invoice mismatches, out-of-sequence events, and excessive paymentsAutomated structured Excel report generation, saving flagged transactions with risk scores for audit review		
Viewpoint Ambulance	EMS Data Processing & Reporting Tool	GitHub Repository
<ul style="list-style-type: none">Built a Python ETL pipeline to clean and merge ambulance billing data from Traumasoft and Call the Car CSV filesAutomated data ingestion, standardizing patient details and addresses using Pandas, Regex, and ScourgifyDeveloped functions to clean data, extract wait times and oxygen needs, and remove invalid records from reportsEngineered a data-matching algorithm to merge patient records, improving accuracy for billing and reportingAutomated structured CSV report generation for billing and operational analysis, improving efficiency		