

John Paul Feliciano

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johnpaulfeliciano98.github.io/portfolio-website

Computer Science Graduate | Healthcare Operations and Technology

Career changer with 7 years in Emergency Medical Services and 7 months as a Software Engineering Intern. Strong foundation in Python, data analysis, and backend development. Passionate about building software solutions for the healthcare industry.

Skills

Programming Languages: Python, SQL, TypeScript, JavaScript, SCSS

Frameworks & Libraries: Django, React, Tailwind CSS (shaden), XGBoost, Pandas, Numpy, SciPy, Mapbox GL Js, Vitest, ESLint

Tools: Jira, Git, API Development, ERD Design, Data Analysis

Education

Oregon State University

Bachelor of Science in Computer Science

March 2025

California State University, Fullerton

Bachelor of Science in Health Science

May 2020

Relevant Experience

American Medical Response (AMR), Riverside, CA

Emergency Medical Dispatcher

December 2024 – Current

- Coordinate 911 and non-emergency dispatch, provide medical instructions, and track calls using TriTech CAD

Inland Empire Health Plan (IEHP), Rancho Cucamonga, CA

Software Engineering Intern

June 2024 – December 2024

- Developed Python scripts to automate API-driven retrieval of healthcare provider records (NPPES API)
- Built backend tools for risk detection in financial transactions to support audit workflows
- Designed ER diagrams and documented database processes to support healthcare data reporting systems
- Analyzed business requirements and supported process improvement initiatives in healthcare data reporting
- Created technical documentation for backend processes, APIs, and system enhancements
- Collaborated with cross-functional teams to improve system operations using LEAN principles

Projects

Levrum Data Technologies, Corvallis, OR

Real-Time EMS Call Prediction

January 2025 – March 2025

- Led backend development using Django and Python to create a real-time EMS call prediction system with dynamic heatmaps
- Designed and implemented backend endpoints for model training, geospatial clustering, and live data visualization (Mapbox GL JS)
- Developed, tested, and debugged machine learning workflows using XGBoost, K-Means, and real-time data pipelines
- Conducted comparative research on ML models (XGBoost, LSTM, Holt-Winters) to optimize forecasting performance
- Created interactive interfaces using React and Mapbox to visualize real-time forecasted call volumes
- Wrote technical documentation outlining model architecture, data preprocessing, and system scaling plans

Other Professional Experience (Healthcare & Operations)

Viewpoint Ambulance, Anaheim, CA

Emergency Medical Dispatcher

January 2023 – March 2024

- Dispatched interfacility transports, coordinating with crews and hospitals for timely patient transfers using TraumaSoft CAD

Vinh Sanh Trading, City of Industry, CA

Data Entry Associate

July 2022 – December 2022

- Entered and validated sales and inventory data to maintain database accuracy and support order processing

PRN Ambulance, Carson, CA

Emergency Medical Technician

September 2021 – June 2022

- Provided pre-hospital patient care during emergency and interfacility transports, completing documentation using ImageTrend ePCR

Falck, Orange, CA

Emergency Medical Technician

September 2019 – September 2021

- Responded to emergency calls and delivered patient care during critical and time-sensitive situations using ZOLL and ImageTrend ePCR

Viewpoint Ambulance, Anaheim, CA

Emergency Medical Technician

August 2017 – September 2019

- Provided medical care and transport for interfacility patients, coordinating with dispatch and receiving facilities