

# John Paul Feliciano

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## Computer Science Graduate with Healthcare Background

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 (shadcn), XGBoost, Pandas, Numpy, SciPy, Mapbox GL Js, Vitest, ESLint

### 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

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

June 2024 – December 2024

Software Engineering Intern

- Built a Python script to automate doctor license verification via the NPPES API
- Developed a DBSCAN-based tool to detect anomalous transactions and assist audits
- Designed an ERD and documented database protocols to support machine learning projects
- Analyzed procurement contracts with Excel pivot tables to evaluate vendor KPIs
- Captured business requirements and streamlined healthcare data reporting using LEAN principles
- Developed and maintained internal documentation to standardize data access, API workflows, and project handoffs

### Projects

#### Levrum Data Technologies, Corvallis, OR

January 2025 – March 2025

Real-Time EMS Call Prediction

- Built a full-stack EMS call prediction system using Django, React, XGBoost, K-Means, and Mapbox GL JS
- Developed backend endpoints to handle model training, predictions, and dynamic Mapbox heatmap updates
- Implemented geospatial clustering with K-Means to optimize forecasting across uneven city distributions
- Researched and compared models (XGBoost, LSTM, Holt-Winters) to improve forecasting performance under time constraints
- Designed interactive desktop and mobile interfaces to display 7-day call volume forecasts on a live heatmap
- Documented model research, feature engineering, and future improvements for project scalability and handoff

### Other Experience

#### American Medical Response (AMR), Riverside, CA

December 2024 – Current

Emergency Medical Dispatcher

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

#### Viewpoint Ambulance, Anaheim, CA

January 2023 – March 2024

Emergency Medical Dispatcher

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

#### Vinh Sanh Trading, City of Industry, CA

July 2022 – December 2022

Data Entry Associate

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

#### PRN Ambulance, Carson, CA

September 2021 – June 2022

Emergency Medical Technician

- Provided pre-hospital patient care during emergency and interfacility transports, ensuring accurate medical documentation

#### Falck, Orange, CA

September 2019 – September 2021

Emergency Medical Technician

- Responded to emergency calls and delivered patient care during critical and time-sensitive situations

#### Viewpoint Ambulance, Anaheim, CA

August 2017 – September 2019

Emergency Medical Technician

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