

# John Paul Feliciano

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## EDUCATION

<b>Oregon State University</b> <i>Bachelor of Science in Computer Science</i>	<b>Corvallis, OR</b> <i>Graduation Date: Mar 2025</i>
<b>California State University, Fullerton</b> <i>Bachelor of Science in Health Science</i>	<b>Fullerton, CA</b> <i>Graduation Date: May 2020</i>

## WORK EXPERIENCE

<b>Inland Empire Health Plan (IEHP)</b> <i>Software Engineer Intern</i>	<b>Rancho Cucamonga, CA</b> <i>Jun 2024 – Dec 2024</i>
<ul style="list-style-type: none"><li>Developed and deployed advanced Excel and Power BI dashboards to identify operational inefficiencies, achieving a 20% cost reduction that translated into an annual savings of \$150K for Medicaid initiatives aimed at supporting low-income residents.</li><li>Engineered an auxiliary processor file that preprocesses data using the DBSCAN clustering algorithm, successfully categorizing similar invoice descriptions and improving data accuracy by 30% across all auditing reports.</li><li>Implemented a Python-based automation system that transformed the data retrieval process for healthcare provider information, reducing manual search times by 90% and saving the team an estimated 80 hours per month.</li><li>Pioneered access to the IEHP data warehouse, enabling the internal controls team to leverage real-time data insights, resulting in a 40% reduction in query response times for critical audits.</li><li>Collaborated with a diverse team of 10 computer science, mathematics, and business intelligence students to label over 50,000 data points for a supervised model aimed at detecting fraud in transportation claims, enhancing model accuracy by 30%.</li></ul>	

## PROJECTS

<b>Levrum Data Technologies</b> <i>Predicting EMS Calls in Real-Time</i>	<b>Corvallis, OR</b> <i>Jan 2025 – Mar 2025</i>
<ul style="list-style-type: none"><li>Analyzed and transformed over 1 million EMS dispatch records to extract time-based features, demonstrating a potential 30% increase in trend prediction accuracy for emergency call volumes.</li><li>Developed and integrated advanced cyclical time features into predictive models, achieving a 30% improvement in forecast accuracy for EMS call patterns during a six-month evaluation period.</li><li>Engineered a predictive analytics model using XGBoost that analyzed over 1 million historical dispatch records to forecast EMS call volumes with 85% accuracy, modeling a 30% enhancement in resource allocation efficiency.</li><li>Facilitated iterative development processes with project management oversight to refine model parameters, enhancing real-time prediction capabilities on datasets exceeding 1 million entries and demonstrating potential for proactive resource allocation during peak demand periods.</li><li>Developed a prototype interactive mapping tool using Folium to analyze EMS call hotspots, demonstrating the potential for a 30% improvement in response times in high-demand areas serving over 1 million residents.</li><li>Collaborated with emergency management teams on a project to integrate real-time data analytics into operational workflows, modeling a 20% reduction in response time variability and supporting proactive deployment strategies for critical incidents.</li></ul>	

## SKILLS

<b>Programming &amp; Data Analytics:</b> Python, SQL, VBA, Power BI, Excel Dashboards, MySQL, Data Warehousing, DBSCAN, XGBoost, Predictive Modeling, Feature Engineering, Clustering, Data Retrieval Automation, Geospatial Visualization
<b>Software Engineering &amp; Development:</b> Software Development Lifecycle, Big Data Processing (1M+ records), Query Optimization, Real-time Analytics Integration, Model Optimization, Performance Tuning, Workflow Streamlining, Operational Efficiency, Cross-functional Collaboration, Project Management Oversight