

Geronyl S. Paragoso

Senior Software Engineer

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OBJECTIVE

Experienced Software Engineer with over 5 years of industry expertise in full-stack development, specializing in Data Science, Progressive Web Applications, and Data Engineering. Proven track record of collaborating with international clients across Asia Pacific and North America to deliver impactful software solutions. Adept at translating complex business requirements into efficient, scalable systems and building robust real-time data pipelines for comprehensive analysis and storage. Seeking a Senior Software Engineer position where I can leverage my technical expertise to drive innovation and tackle challenging problems in a dynamic environment

COMPETENCY MATRIX

Core Proficiency	Experience	Exposure
<ul style="list-style-type: none">• Python• MongoDB• MySQL• PostgreSQL• Sqlite• Multiprocessing/ Threading• Data Management• Flask and FastAPI• Data Scraping and Sourcing	<ul style="list-style-type: none">• Git• Web Development• Mobile App Development• API Development• Numpy, Pandas and Matplotlib• Data Analysis with Jupyter and MitoSheet• ERPNext• Linux Servers	<ul style="list-style-type: none">• AWS S3, EC2• AWS Redshift, Athena, Lambda, and Step Functions• Phonegap• Arduino• Raspberry Pi• Machine Learning

Work Experience

Software Engineer (Freelance)

Self-employed | July 2024 - January 2025

- **Facial Recognition Attendance System:** Engineered a computer vision-based attendance tracking solution leveraging OpenCV and pre-trained deep learning models. Implemented facial landmark detection using `dlib_face_recognition_resnet` and `shape_predictor` algorithms to ensure accurate identification. Delivered a production-ready system that eliminated manual attendance tracking processes.
- **Custom Neural Network Development Platform:** Architected a configurable Artificial Neural Network (ANN) builder platform enabling non-technical users to customize model parameters including neuron counts, activation functions, and learning rates. Containerized the entire solution using docker, creating an isolated, portable development environment accessible via port forwarding with AWS EC2. Reduced cloud computing costs by 70% through strategic use of local hardware for intensive computational workloads while maintaining enterprise-level availability.

Query Developer

Jarvis Analytics | July 2022 - July 2024

- **Data Warehousing:** Architected and implemented a unified data warehousing schema that standardized data integration across multiple client Property Management Systems (PMS) with disparate database structures. Developed complex SQL queries and ETL processes to transform heterogeneous client schemas into a single, cohesive data model, reducing query complexity by 60% and improving cross-client reporting efficiency. Collaborated with data scientists to design scalable dimensional models that supported real-time analytics while maintaining data integrity across 15+ unique client database configurations.

IT Consultant

Borland Development Corporation | July 2022 - July 2023

- **HR Management System:** Implemented an HR management system, streamlining employee data processing and enhancing reporting capabilities.
- **ERPNext and Bank Reconciliation:** Contributed to a team-driven integration of ERPNext with bank reconciliation processes, reducing financial discrepancies.
- **Flake-8 Tooling:** Automated code quality checks using Flake-8, resulting in a minimal code review time.

Software Engineer (Freelance)

Self-employed | November 2018 - 2022

- **ML Model for Predicting Future Sales:** Developed a machine learning model to forecast sales aiding in inventory management.
- **MongoDB to MySQL Converter:** Created a robust tool for converting MongoDB databases to MySQL, facilitating seamless data migration for clients.
- **Server Automation Script:** Automated server deployment and maintenance tasks, reducing manual intervention.
- **ML Menu Image Labeler:** Designed an AI tool to label menu images, enhancing menu management efficiency for restaurant clients.
- **Review UI for Spot Data and Supermarket Data:** Built a user-friendly interface for data review, improving data quality checks and user interaction.

Software Engineer

LPM Software | June 2018 - August 2020

- **Cryptocurrency Financial Analysis Tool:** Developed a tool for analyzing cryptocurrency trends, aiding financial decision-making for investors.
- **Prototype Development for Variable Temperature Difference Recognition:** Created a prototype to recognize temperature differences, contributing to advancements in HVAC technology.
- **Bristle Bot Movement and Path Optimization:** Programmed the movement direction and optimized the shortest path for bristle bots, improving navigation efficiency in swarm robotics projects.

Personal Project

Just for Fun Projects

- **Election Analytics Platform (Full Stack):** Developed a comprehensive election monitoring system using FastAPI, providing Iligan residents with real-time access to local candidate information and voting analytics. Engineered granular data visualization capabilities allowing users to analyze voting patterns at the barangay level. ([Election Poll](#))
Designed and implemented a responsive React frontend with mobile-optimized views for vote submission and statistical analysis. Implemented RESTful API architecture with Swagger UI documentation for easy integration with third-party services. ([Election Poll API - Swagger UI](#))
- **AI Chat with Web Search:** Architected a FastAPI service that integrates local large language models (via Ollama) with web search capabilities. Implemented intelligent prompt engineering to enable outdated models to retrieve and leverage current information from DuckDuckGo search results
Created a React-based user interface allowing dynamic model selection and configurable search depth parameters. Implemented a contextually-aware chat interface that seamlessly blends model knowledge with real-time web data