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Quezon City Philippines

PROFILES AND PORTFOLIOS

- <https://www.linkedin.com/in/jancarloonce/>
- <https://github.com/jancarloonce>
- <https://jancarloonce.com/>

EDUCATION

Bachelor of Science,
Information Technology
Quezon City University,
April 2017

JAN CARLO ONCE

Software engineer

PROFESSIONAL SUMMARY

I am a dedicated Software Engineer with 8 years of experience in Software Development. My expertise includes Fullstack Web Development, Data Science, Artificial Intelligence and Cloud Technologies. I pride myself on being a team player with a keen eye for detail, ensuring that projects are delivered with precision and excellence.

CERTIFICATIONS

AWS CLOUD PRACTITIONER

MICROSOFT AZURE FUNDAMENTAL

IBM COGNITIVE PRACTITIONER

WORK HISTORY

January 2024 - Current

Adaca - Senior Software Engineer, Sydney, Australia (Remote)

- Engineered high-performance REST APIs in FastAPI and Python, defining strict Pydantic schemas to enforce end-to-end data validation and serialization.
- Architected scalable microservices on Azure, leveraging Service Bus queues, Azure Functions, and durable workflows to process high-volume messages with reliable throughput.
- Optimized Cosmos DB integrations by designing efficient data models and implementing targeted indexing and batch operations to streamline data ingestion and querying.
- Developed responsive front-end applications using Next.js, TypeScript, and Tailwind CSS, creating reusable UI components and enhancing overall user experience.

November 2023 - December 2023

Odyssey - Machine Learning Data Engineer, San Jose, California, USA (Remote)

- Developed data pipelines to ingest and sanitize multi-terabyte 3D image collections into GCP Cloud Storage buckets, applying cleanup routines for format normalization, deduplication, and integrity checks.
- Consolidated diverse 3D imaging datasets by collating raw files from Kaggle, Hugging Face, and GitHub into a unified format, enabling consistent downstream processing.

February 2019 - August 2023

IBM - Senior Software Engineer, Quezon City, Metro Manila Philippines

- Spearheaded development and maintenance of predictive machine learning models in Python to drive data-driven decision-making.

- Ensured integrity and performance of Hive tables and Hadoop assets through proactive schema tuning and cluster health monitoring.
- Engineered Apache NiFi data flows and designed Kibana dashboards to visualize model outputs and operational metrics.
- Built Python batch jobs to automate feature engineering pipelines and maintain up-to-date training datasets.
- Developed RESTful APIs using Java and Spring Boot to expose model services and integrate with downstream applications.
- Constructed dynamic front-end applications in React, implementing reusable components and interactive data visualizations.

May 2017 - February 2019

Accenture - Associate Software Engineer, Mandaluyong City, Metro Manila, Philippines

- Engineered scalable Python batch pipelines to automate end-to-end validation of search REST APIs, enabling rapid experimentation with ranking parameters and ensuring consistent top-results quality.
- Built configurable cleanup workflows using Python and the Elasticsearch API to execute index maintenance tasks—applying client-specific retention rules, removing stale documents, and preserving search accuracy.
- Implemented an NLP - driven relevance engine, leveraging tokenization, vector embeddings, and semantic similarity scoring to refine result ordering across diverse query intents.
- Designed and deployed a sentiment analysis service in Python, integrating text preprocessing and classification models into the feedback pipeline to surface actionable user insights.
- Prototyped a Naive Bayes classifier for automatic problem-area detection in search logs, laying the groundwork for future AI-powered search enhancements.

TOOLS AND TECHNOLOGIES

- **Languages:** Python · JavaScript · Java · C# · Bash · Mojo · TypeScript
- **Cloud & DevOps:** AWS · Azure · Docker · Git · Linux · Nginx · Unicorn · Poetry · GCP · Apache Airflow · Control - M
- **Web Frameworks & Libraries:** FastAPI · Django · Flask · Spring Boot · Pydantic · React · Redux · Next.js · Tailwind CSS · Bootstrap
- **Databases & Big Data:** MySQL · PostgreSQL · Microsoft SQL Server · Hadoop · Hive · Kafka · Elasticsearch · CosmosDB · Nifi · ChromaDB
- **Data Science, AI & ML:** Pandas · scikit-learn · PyTorch · TensorFlow · Langchain · Huggingface · OpenAI · FAISS
- **Monitoring & Analytics:** Grafana · Kibana · Prometheus
- **Testing & Automation:** Postman · Selenium · Zapier