

Giovanni Icasiano Jr

Software Engineer | Full Stack & AI | Dubai, UAE

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Software Engineer focused on full stack development and AI. Built client facing software, iOS applications, and full stack web systems using Python, React, FastAPI, PostgreSQL, Swift, and REST APIs.

Experience

AI Software Developer (Contract Project)

Aug 2025 – Nov 2025

Fall Detection System Desktop Application Python, VLMs, Tkinter, Git/GitHub

United Arab Emirates, Dubai

- Benchmarked GPT-4o, Claude, Gemini, and Qwen2.5-7B-VL across accuracy, inference time, cost, and temporal segmentation to support model selection.
- Built a client facing Python desktop application for fall detection, delivering weekly builds over a 3 month client engagement.
- Built a Python desktop GUI with drag and drop video input, multi model selection, and side by side output comparison using TkinterDnD2.
- Managed Git based development across a team including branching, code reviews, and release coordination.

Freelance Video Editing

Dec 2024 – May 2025

Adobe After Effects, Motion Graphics, Transitions, Storytelling

United Arab Emirates, Dubai

- Managed video projects for multiple clients from brief to final delivery while meeting deadlines across concurrent projects.

Projects

Recall — iOS Navigation & Memory App

<https://github.com/giovxn/recall>

SwiftUI, SwiftData, CoreLocation, MapKit, AVFoundation, Vision, ActivityKit

- Built a full iOS app helping everyday users remember and navigate back to saved locations, designed around real needs like finding a parked car or remembering a meeting spot
- Engineered a GPS confidence scoring system (high/medium/low) with adaptive navigation and prototype dead-reckoning fallback; maintaining accuracy when signal degrades
- Built an on-device vision pipeline using CoreML for OCR, scene classification, and color labeling; boosting location confidence without extra user input
- Integrated Live Activity and Dynamic Island for real-time lock screen navigation updates

WeatherFit — AI Outfit Recommendation System

<https://github.com/giovxn/weatherfit>

React, Vite, IndexedDB, OpenWeatherMap API, Python, PyTorch

- Built a full-stack app that recommends personalised outfits based on live weather conditions, designed for everyday use with a focus on simplicity and user experience
- Trained a custom ResNet-50 model with 3 output heads (category, formality, warmth) to auto-classify wardrobe items from photos; achieved 98.77% category accuracy, 89.83% formality accuracy
- Extended the project to full-stack with FastAPI + PostgreSQL backend, JWT/email auth (plus Google sign-in), and authenticated wardrobe CRUD APIs for persistent item management and live OpenWeatherMap integration.

Education

Murdoch University

May 2024 – Apr 2026

Bachelor's in Information Technology - Computer Science & Artificial Intelligence
(Double Major)

Knowledge Village Park, Dubai

Murdoch University

Sep 2022 – Apr 2024

Foundation & Diploma in Information Technology

Knowledge Village Park, Dubai

Hackathon & Competitions

Dubai AI Hackathons 2025 — @In5 Tech & @Dubai AI Festival

- Competed in two AI-focused events, conceptualising and pitching an AI-powered real estate platform to panels of investors and industry professionals; led pitching strategy, defined the problem statement, and designed the presentation deck

Technical Skills

Languages: Python, Swift, JavaScript, Java, C/C++, SQL

Frameworks & Libraries: React, Vite, Node.js, Express.js, FastAPI, SQLAlchemy, SwiftUI, PyTorch, NumPy, Pandas

AI & ML: OpenAI API, Claude API, Hugging Face, PyTorch, ResNet, scikit-learn, model benchmarking, rule-based inference

Developer Tools: Git, GitHub, VS Code, Xcode, Docker, Postman, Linux, AWS (EC2, Route 53), Azure

Concepts: REST APIs, JWT authentication, OAuth 2.0, client-server architecture, PostgreSQL schema design, CI/CD, cloud deployment