

# Darwin Fegarido

Software Engineer | Full Stack Web Developer | Python | Node.js & JavaScript | ReactJS | 7+ Years in Scalable APIs & Microservices

📍 San Pablo, Laguna,  
Philippines 4000  
☎️ +63 956 570 5207  
✉️ darwinfegarido@gmail.com  
🌐 Portfolio: [dfegarido.github.io/portfolio](https://dfegarido.github.io/portfolio)  
📄 GitHub: [github.com/dfegarido](https://github.com/dfegarido)

## SUMMARY

Backend Developer with over 7 years of experience in backend and full-stack development, now extending expertise into **AI integration and LLM-powered applications**. Skilled in building scalable APIs, microservices, and real-time systems with **Node.js, Python, and cloud services**, alongside hands-on experience with **ETL pipelines and data engineering**.

Proven track record in developing **AI-driven solutions**, including **RAG (Retrieval-Augmented Generation) pipelines** that leverage **vector databases** for knowledge retrieval and intelligent search. Adept at **integrating LLMs (ChatGPT, Ollama, OpenAI APIs)** into applications to enhance automation, chat systems, and data workflows.

Successfully mentored developers and optimized **CI/CD pipelines across Azure, AWS, and GitHub Actions**, improving team efficiency and deployment reliability. Experienced in creating **integrated platforms, CMS solutions, and real-time chat systems**, while ensuring **data normalization, performance optimization, and security best practices**.

Passionate about blending **traditional backend engineering with AI-powered systems**, driving innovation through **LLM integration, vector search, and intelligent automation** to deliver next-generation solutions.

## EXPERIENCE

### Freelance Full Stack / Backend Engineer

*Self-Employed*

2025-07 – Present · Freelance

#### Key Responsibilities:

- Delivered advertising automation workflows using Make.com with AI integration (ChatGPT, Groq) to streamline campaign execution.
- Built and deployed social networking platforms and mobile applications with Node.js (Express), React Native, and AWS (ECR, ECS Fargate).
- Developed serverless e-commerce solutions with Firebase Functions and React Native to support scalable retail operations.
- Implemented matching and recommendation features in web applications (e.g., PhillyMatch) using Laravel, questionnaires, and profile-based matching.
- Designed and integrated hotel booking workflows into travel platforms (e.g., MasayaTripPH) with seamless user experience and payment support.
- Deployed and maintained **ReactJS admin panels** with CI/CD pipelines using **GitHub Actions, Amazon S3, and CloudFront** for secure, scalable delivery.

## SKILLS

- ✓ Python (Flask, Django)
- ✓ Node.js (Express.js)
- ✓ MongoDB, PostgreSQL
- ✓ PySpark (ETL Pipelines)
- ✓ Firebase (Authentication, Firestore, Notifications)
- ✓ Expo SDK (Push Notifications)
- ✓ WebSocket & Socket.IO (Real- Time Chat)
- ✓ Agile & Scrum Methodology
- ✓ REST APIs, Microservices Architecture
- ✓ ReactJS, VueJs (Frontend)
- ✓ Web3js
- ✓ Redis
- ✓ AI Integration (LLMs, Chatbots, Automation)
- ✓ RAG (Retrieval-Augmented Generation) using LLMs & Vector Databases
- ✓ Vector Stores (Pinecone, FAISS)
- ✓ Prompt Engineering & Workflow Orchestration

## HIGHLIGHT PROJECTS

- ✓ **Real-Time Chat System**  
Developed robust 1-to-1 and group messaging features using **Firebase and Socket.IO**, enabling instant real-time communication across mobile and web platforms.
- ✓ **Data ETL Automation**  
Built a modular and scalable data ingestion pipeline using **PySpark and Python**, automating daily analytics and reporting processes for large datasets.
- ✓ **Railway Load Prediction System – Melbourne, Australia**  
Designed a predictive analytics tool that estimates passenger overflow during station disruptions and calculates optimal bus dispatching using real-time data inputs.

## Key Projects:

- Advertising Automation – Created automated campaign workflows integrating AI (ChatGPT, Groq) and Make.com.
- Shareikna App (Saudi Arabia) – Social networking platform built with Node.js (Express), React Native, deployed via AWS ECS Fargate (ECR + ALB).
- Shareikna Admin Panel ([admin.shareikna.com](http://admin.shareikna.com)) – Built with ReactJS, deployed to Amazon S3 + CloudFront, automated CI/CD via GitHub Actions.
- ILeafU (USA) – Mobile e-commerce app for plant sales, powered by Firebase Functions + React Native.
- PhillyMatch ([phillymatch.org](http://phillymatch.org)) – Social networking platform developed in Laravel, featuring questionnaire-driven profile matching.
- MasayaTripPH ([masayatrip.com](http://masayatrip.com)) – Travel booking platform enabling hotel reservations across selected destinations.

## Sr Full Stack Engineer

WISEO ASIA

2021-02 - 2025-7 · 4 years

### Key Responsibilities:

- Engineered scalable backend systems using Node.js and Python to support analytics-driven applications.
- Designed and deployed end-to-end ETL workflows that process real estate data from Parquet files, enabling seamless transformation and loading using PySpark and Pandas.
- Built and maintained user-facing applications using modern frontend frameworks like Vue.js and React.js.
- Administered CI/CD pipelines in Azure, streamlining deployment cycles and improving system reliability.
- Tuned SQL queries and restructured database schemas to significantly enhance performance and query efficiency.
- Deployed backend Node.js APIs using Docker, uploaded to Amazon ECR, and executed on AWS ECS Fargate with Application Load Balancer for scalable request handling.
- Set up frontend React.js applications hosted on GitHub, with automated build and deploy workflows via CI/CD to Amazon S3, delivered through CloudFront, and routed via Route 53.
- Mentored junior and mid-level engineers by promoting engineering best practices, conducting code reviews, and fostering a strong knowledge-sharing culture.

### Key Achievements:

- Successfully migrated legacy Pandas ETL workflows to PySpark, significantly improving data processing performance.
- Delivered a modular real-time chat service architecture using WebSockets and Firebase.
- Built a fully containerized microservice backend with AWS Fargate, improving scalability and deployment time.
- Streamlined backend codebases for better maintainability, performance, and faster onboarding of new developers.

### ✓ Advertising Automation with AI

Automated advertising workflows using Make.com and AI integration (ChatGPT, Groq) to streamline content generation, campaign execution, and performance tracking.

### ✓ Shareikna App & Admin Panel – Saudi Arabia

Developed a social networking platform and admin panel using Node.js (Express), React Native, and ReactJS. Deployed backend with AWS ECS Fargate (ECR + ALB) and frontend to Amazon S3 + CloudFront with CI/CD pipelines via GitHub Actions.

### ✓ ILeafU Mobile App – USA

Built an e-commerce mobile application for plant sales using Firebase Functions + React Native, supporting seamless payments, order tracking, and push notifications.

### ✓ PhillyMatch – USA ([phillymatch.org](http://phillymatch.org))

Created a social networking platform using Laravel, enabling users to match based on questionnaire-driven profiles.

### ✓ MasayaTripPH – Philippines ([masayatrip.com](http://masayatrip.com))

Implemented a travel and hotel booking platform, allowing users to book accommodations across selected destinations with integrated search and reservation workflows.

### ✓ Remy Cointreau – Liquor eCommerce (<https://www.remy-cointreau.com/>)

Implemented a branded Shopify eCommerce solution with integrated payment systems, product catalog, and SEO optimization for improved visibility and conversions.

## AVAILABILITY

✓ Open to Remote Backend Engineer roles or Full Stack positions with backend focus.

✓ Can start immediately.

## Full Stack Engineer

Quantum Crowd

2020-04 - 2021-01 · 9 months

### Key Responsibilities:

- Built scalable and secure backend services using Node.js for core insurance workflows, including user authentication, policy, and claims management.
- Integrated closely with Vue.js frontend components, ensuring smooth data flow and consistent UX.
- Designed RESTful APIs and structured service layers for reusability and maintainability.
- Enhanced developer experience by implementing comprehensive API documentation using Swagger/OpenAPI.
- Optimized server-side logic and asynchronous processes for high performance and reliability.

### Key Achievements:

- Delivered core backend modules ahead of schedule, enabling a successful MVP launch.
- Reduced API response times by over 30% through performance tuning and query optimization.
- Significantly improved team velocity by introducing standardized, well-documented API structures.

## Full Stack Engineer

Taktyl Studios

2019-11 - 2020-07 · 8 months

**Tech Stack:** Node.js, Express.js, MongoDB, REST APIs

### Key Responsibilities:

- Led backend development of a Content Management System (CMS) tailored for gaming analytics and operational dashboards.
- Built robust data normalization pipelines to aggregate in-game metrics and player behavior insights.
- Designed RESTful APIs to support internal tools and external analytics visualization.
- Collaborated with frontend teams to ensure real-time syncing and reporting accuracy.

### Key Achievements:

- Improved backend data processing performance by 25%, enhancing analytics turnaround time.
- Enabled near real-time game telemetry insights by streamlining backend logic and database operations.
- Delivered scalable backend infrastructure that supported multiple live game environments.

## Mid Fullstack Developer

New Oriental Club88

2019-03 - 2019-08 · 5 months

**Tech Stack:** CentOS, Python, Nginx, Cronjob, MySQL

### Key Responsibilities:

- Developed backend services and automated scripts to integrate external data sources into internal systems using Python and cron jobs on CentOS environments.
- Managed server configurations and deployments using Nginx, ensuring high availability and optimized routing.
- Designed ETL processes to fetch and process data from third-party providers, enabling centralized analytics and operations.
- Implemented system-level logging and monitoring tools to enhance operational visibility and incident response.

### Key Achievements:

- Hardened backend systems by implementing enhanced security protocols, reducing vulnerability reports by 50%.
- Streamlined data ingestion pipelines, improving data availability for internal dashboards and reports.
- Played a central role in maintaining a stable, secure server infrastructure used by multiple departments.

## Full Stack / Python Developer

Skyluster Technology Inc.

2018-03 - 2019-02 · 11 months

**Tech Stack:** Python, Node.js (Express), Django, JavaScript, Solidity, Web3.js, Bash, Ubuntu, Nginx, Ethereum

### Key Responsibilities:

- Led backend development for a Web3-powered SaaS platform that allowed users to generate templated websites in one click.
- Designed and deployed smart contracts on the Ethereum network, including a custom ERC20 token, enabling crypto-based subscription payments.
- Integrated Web3.js into the frontend to facilitate real-time blockchain interactions such as wallet authentication and token transactions.
- Developed and maintained backend infrastructure using Node.js, Django, and Python, with server-side automation via Bash scripts.
- Managed Ubuntu servers and configured Nginx for secure, scalable hosting and traffic routing.

### Key Achievements:

- Delivered a full-stack decentralized SaaS product with seamless Ethereum-based payments and smart contract automation.
- Successfully launched a custom ERC20 token, facilitating crypto transactions within the platform.
- Built robust backend services supporting both traditional REST APIs and blockchain communication with enhanced security and fault tolerance.