

Darwin Fegarido

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

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SUMMARY

Backend Developer with over 7 years of experience in the technology industry, specializing in backend and full-stack development. Proven expertise in Node.js, Python, and cloud services, with a solid track record in leading backend and data analytics projects. Successfully mentored developers and optimized CI/CD processes utilizing Azure Pipelines, enhancing overall developer efficiency. Experienced in developing integrated platforms and CMS solutions, focusing on data normalization, security, and performance optimization. Demonstrated ability to lead cross-functional teams and deliver seamless integration of frontend and backend components across various projects. Passionate about leveraging my technical acumen and leadership skills to drive innovation and contribute to high-impact projects in a dynamic, forward-thinking company.

EXPERIENCE

Sr Full Stack Engineer

WISEO ASIA

2021-02 - 2025-02 · 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

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

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.

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.

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.

HIGHLIGHT PROJECTS

✓ Remy Cointreau – Liquor eCommerce Website

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

✓ Shariekna – Social Event Platform

Engineered the backend for a social app that allows users to create, join, and chat about events, featuring real-time messaging, location mapping, and user-generated content.

✓ Skater App – Location-Based Skateboarding Community

Built features that allow users to find and connect with nearby skateboarding spots and communities, promoting engagement through geolocation and activity tracking.

AVAILABILITY

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

✓ Can start immediately.

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.