

JEAN PAUL FERNANDEZ

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EDUCATION

The University of Manchester

Bachelor of Science in Computer Science, Expected 2:1

Manchester, UK

Expected June 2026

EXPERIENCE

LEPAYANA Group S.A.C.

June 2025 – September 2025

Software Engineer Intern

Trujillo, Peru

- Built a people-management platform handling 1,000+ associate records using Next.js, PostgreSQL, Redis, and S3-compatible object storage
- Designed secure data workflows with role-based access, signed requests, and national ID verification to protect records and reduce manual onboarding effort
- Built a customer rewards campaign platform with user registration, receipt validation, ticket allocation, and admin-facing operational workflows
- Implemented a serverless CI/CD deployment workflow, reducing manual release steps and improving delivery reliability

Freelance / Independent Consultant

October 2023 – March 2025

Full-stack Developer

Remote

- Delivered full-stack web applications for small organisations, covering requirements gathering, implementation, deployment, and ongoing support
- Designed and launched a responsive landing page for a medical education provider, attracting 5,000+ visitors in its first month
- Developed operational web apps including a QR-based attendance platform for a school programme and a zoo reservation system handling 500+ monthly bookings

PROJECTS

Real-Time AI-Powered Transcription App | Next.js, WebSockets, PostgreSQL, Redis, AI SDK

- Built a real-time speech-to-text platform with session-based hosting, live transcription, translation, and attendee-facing updates
- Implemented WebSocket-based communication to stream transcript updates and participant interactions with low-latency feedback
- Integrated an AI chatbot that uses the live transcript as contextual memory to answer attendee questions during sessions
- Developed a live Q&A workflow for submitting, upvoting, and managing participant questions in real time

AI-Powered Email Assistant for Microsoft Outlook | React, TypeScript, Bun, SQLite, Microsoft Graph, LLM APIs

- Designed and evaluated an Outlook-integrated email assistant for thread summarisation, context-aware reply drafting, and iterative refinement
- Built a local backend with SQLite persistence, provider abstraction for multiple LLM APIs, streaming responses, and prompt caching
- Implemented Microsoft Graph integration to retrieve, clean, and structure email thread context while keeping users in control of draft creation

Pastoral Digital App | Next.js, PostgreSQL, Redis, Clerk Auth, Drizzle ORM, Zod, AWS S3

- Implemented authentication, role-based access, relational data models, and form validation using Clerk, Drizzle ORM, Zod, and PostgreSQL
- Developed QR-based attendance flows and admin dashboards to support event scheduling and participation tracking for 100+ catechists

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python, Java, C/C++, SQL, PHP, HTML, CSS

Frameworks and Runtime: React.js, Next.js, Node.js, Bun, Flask, FastAPI

Databases and Backend: PostgreSQL, SQLite, Redis, Drizzle ORM, RESTful APIs, WebSockets, Authentication, RBAC

Cloud and Developer Tools: AWS, Vercel, Cloudflare, Docker, Git, GitHub Actions, Linux, Microsoft Graph

Concepts: Distributed Systems, CI/CD, Cloud Computing, Machine Learning, NLP Pipelines, Agile Development