

David E. Bato-bato

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PROFILE

A motivated and self-taught developer with 3 years of practical experience in Software Development. eager to apply and enhance skills while making meaningful contributions to communities. Skilled in connecting programming with tangible real-world outcomes.

TECHNICAL SKILLS

Languages

- HTML, CSS, JavaScript, Typescript, Python, PHP, C++

Frameworks, Libraries & Databases

- React, Tanstack, Vite, Tailwind, Bootstrap, Node, Express, NestJS, Redis, Flask, FastAPI, Fastify, Laravel, NextJS, Firebase, Eloquent ORM, Socket.IO, SQL, NoSQL, MySQL, Postgres, Sqlite3, Supabase, MongoDB, Firestore Database Wordpress, Elementor, Docker, Pytorch, Google Cloud, AWS S3, AWS Cloud-Front, AWS Lambda, AWS EC2, CloudFlare, Durable Objects, Cloudflare R2

Version Controller

- Git and Github

EXPERIENCE

Prodigitality Services PH

Cloud Engineer

Jan 2026 - Present

- Lead end-to-end development of the company's core platform as **Lead Developer**, owning architecture and technical direction across **core services** and accelerating delivery cycles by **~90%** from design to deployment
- Established structured engineering workflows and clear ownership boundaries, improving team accountability, project transparency, and delivery consistency
- Built and scaled the platform's infrastructure across a modern cloud ecosystem leveraging **AWS, GCP, and Cloudflare** for deployment, scaling, and reliability, with **LangChain and LangGraph** powering AI-driven workflows

ImHereTravels

Oct 2025 - June 2026

Full Stack Developer / Automation Lead

- Developed a **Backoffice platform** that reduced manual workload by **~50%**, centralizing operations across bookings, backlogs, and tour management while automating email workflows
- Engineered core business systems including **due dates, late fees, installment plans, tour logs, price history tracking, and analytics dashboards**, improving billing accuracy and operational efficiency by **~35%**
- Built and scaled the system using **Next.js, Firebase (Auth, Firestore, Storage), Google Cloud Run, and Stripe (payment links & webhooks)**

Greystack

Junior Software Developer / AI Engineer

May 2025 - October 2025

- Built an **AI-powered productivity platform** that improved task execution speed by **~45%**, integrating OCR pipelines to extract and process structured data from legal documents
- Developed OCR solutions and a **human-in-the-loop canvas**, reducing manual data entry by **~60%** while enabling real-time validation and correction within the automation pipeline
- Built the application using **Next.js, FastAPI, Puppeteer, LangChain, and LangGraph**

EDUCATION

Polytechnic University of the Philippines

Sta. Mesa, Manila

B.S in Computer Engineering

Expected Graduation, July 2027

ORGANIZATION

- AWS Cloud Club PUP Skill Builder Department - Backend Lead (Nov 2025 - Present)
- GDG PUP - Web Development Department - Web Development Co-Lead (Sept 2024 - Sept 2025)

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PROJECTS

Proyekto Tech

(React 19 TanStack, NestJS, FastAPI, GCP Cloud Run, Upstash Redis, Cloudflare R2 & Durable Objects, LangGraph)

- Built a **managed work-delivery platform** (akin to Linear/Trello) introducing a dedicated **Consultant layer** between clients and freelancers, with an **AI-assisted roadmap canvas** (XYFlow + dagre, optimistic UI) as the flagship feature
- Architected a **polyglot monorepo** of five deployable services React 19 SPA, NestJS 11 API, a **Python/FastAPI AI agent**, and a Cloudflare realtime worker coordinated through a shared JSON operations contract validated across both the TypeScript and Python runtimes
- Designed the roadmap AI agent around a tool-calling loop on the **OpenAI Responses API**, snapshotting Redis session state into Postgres so nothing is lost on TTL expiry, with durable per-roadmap memory shared across collaborators
- Engineered **multi-tier caching with graceful degradation** (auth-aware TTLs, edge-cache purge, in-memory fallback) and migrated realtime to **Cloudflare Durable Objects** (hibernation so idle rooms cost nothing) and storage to **Cloudflare R2**, deployed on **GCP Cloud Run** and traced end-to-end with OpenTelemetry

DEVCON+ Backend & Infrastructure Lead

(NestJS, TypeScript, Supabase/PostgreSQL, Upstash Redis, Firebase Admin, AWS EC2, Docker, nginx, Terraform, GitHub Actions)

- Led backend and infrastructure as **lead developer**, re-architecting the platform into a modular **NestJS API gateway**
- Designed a **fail-open Redis caching layer** (Upstash over REST) using a resource-keyed cache-aside pattern with explicit invalidation and TTL backstops, plus layered rate limiting a global DoS throttle and fail-closed business-logic limits to protect the points economy
- Provisioned a **cost-efficient single-instance AWS deployment** (EC2 + nginx + Docker) via **Terraform**, with keyless **OIDC + SSM CI/CD** (GitHub Actions) and CloudWatch observability, deliberately forgoing ALB, RDS, and autoscaling to stay within a lean MVP budget
- Drove a **realtime architectural inversion** (a 200-connection realtime cap with replication consuming ~76% of DB time), cutting database load while preserving correctness through visibility- and interval-based refetching

ImHereTravels Travel Booking & Automation Platform

(Next.js 16, React 19, Firebase Firestore, Cloud Functions, Firebase Storage, Stripe, Revolut, Gmail API)

- Built an event-driven **automation engine** on Firebase Cloud Functions using a flag-driven pattern admin actions toggle Firestore booleans and triggers handle the rest (Gmail draft/send, guest invitations, pre-departure packs), backed by scheduled cron jobs for installment reminders, late-fee application, and nightly backups
- Integrated a dual **Stripe + Revolut payment gateway** driving a reservation-fee-to-installment-plan flow, with a pure-function calculation engine (installment due dates, prorated amounts, late fees) and idempotent webhooks that recompute totals from scratch to stay correct under retries and client fallbacks
- Kept the admin CMS and public marketing site in sync through **Next.js ISR with on-demand revalidation** every tour edit pings the public site's revalidate endpoint so updated pricing and availability publish instantly instead of waiting on the cache window

Debbie – AI RAG Assistant for DEVCON

(FastAPI, React, LlamaIndex, OpenAI, Google Drive, BAAI/bge-m3)

- Built an **AI-powered RAG chatbot** to provide rich, context-aware information for DEVCON officials and future cohorts and DEVCON details
- Integrated **Google Drive as a knowledge base** with LlamaIndex and **BGE-M3 embeddings** to enable accurate semantic retrieval