

Mack Cloyd Bacarisas

Backend Software Engineer

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PROFESSIONAL SUMMARY

Backend software engineer with nearly three years of professional experience building Python services for regulated, AI-heavy products. Core backend engineer on a HIPAA-compliant clinical documentation platform, owning the LLM summarization pipeline, relationship-based authorization, PHI protection, and the CI/CD and observability foundations a ten-engineer team deploys on. Also ships client products end to end as a freelance engineer, most recently as lead developer and project manager on a document e-service portal.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript

Backend & APIs: FastAPI, NestJS, Node.js, Express, REST API design, async Python, background jobs

Frontend: Next.js, React, Vue.js

AI & Machine Learning: OpenAI, LangChain, LLM pipeline design, evaluation and parity harnesses, hallucination detection, Google Cloud Speech-to-Text, inference model training and deployment

Data: MongoDB, Redis, PostgreSQL, schema migrations

Infrastructure & DevOps: Docker, Docker Compose, GitHub Actions, CI/CD pipelines, Linux, Nginx, Google Cloud Platform, Coolify, Grafana, Prometheus, Loki, VictoriaLogs

Security & Compliance: HIPAA, PHI handling, GDPR data subject access requests (DSAR), consent and audit logging, field-level encryption, TLS 1.3, SpiceDB relationship-based access control (ReBAC)

PROFESSIONAL EXPERIENCE

Backend Software Engineer — Ayla AI

Contract, Remote | 09/2024 – Present

- Core backend engineer on VisitAssist, a HIPAA-regulated clinical documentation platform that turns patient visits into structured medical summaries for healthcare providers; one of ten engineers on a FastAPI system of 252 endpoints across 17 containerized services.
- Migrated clinical summarization onto a shared LLM pipeline across 139 files, building golden-fixture parity and semantic comparison tooling so a rewrite of the product's core could ship without regressing clinical output.
- Added an ICD-10 and UMLS medical validator plus derived-field verifiers that keep hallucinated clinical content from reaching providers, and cut the doctor-visit summarizer from a single 1,333-line class into eight modules (54% smaller main file).
- Re-architected authorization onto SpiceDB relationship-based access control across 70 files, replacing user role flags with per-organization permissions and adding support-agent APIs for MFA reset and forced logout.
- Owned PHI protection and HIPAA compliance: a centralized encryption service, PHI redaction and field-level tagging, TLS 1.3 enforcement, Google Cloud Secret Manager, and an automated weekly HIPAA report.
- Created the repository's CI/CD and observability foundation — GitHub Actions pipeline, Dockerfile and Docker Compose stack, dynamic image tagging with rollback, and a Grafana and VictoriaLogs stack — now carrying roughly five staging and production deploys per week.
- Core backend engineer on ContractMani, a contract intelligence platform. Built a human-adjudicated LLM benchmark to select the extraction model, streamed PDFs through batch extraction to cut peak memory, and added per-call LLM cost tracking.

Freelance Software Engineer — Self-Employed

Cebu City, Philippines | 11/2025 – 09/2026

- **Superbands Inc. (US non-profit, music and mental health), 05/2026 – 09/2026** — Built StickWithMe, a public map and gallery fed by photo, voice memo and location submissions from contributors across 21 cities in 6 countries, with a moderation queue, per-submission consent levels, email opt-in tracking and a deletion audit log; and The Receipt (receipt.superbands.me), a post-show keepsake app deployed at live tour dates, with a curator analytics dashboard and data subject access request tooling.
- **Syndr AI (AI-powered SEO platform), 02/2026 – 05/2026** — Built the Subreddit Finder tool and the AI Campaign Assistant, and delivered the majority of the product's outstanding feature backlog.
- **LandTrax (document processing and real estate asset organization), 11/2025 – 04/2026** — Lead developer and project manager for the LandTrax E-Lodgement Portal, a full e-service portal built with Next.js and NestJS; owned technical architecture, delivery planning and client communication.

AI Engineer — FindaHost.io

Contract, Remote | 04/2024 – 11/2024

- Built the company's rental revenue calculator, a customer-facing tool that estimates earning potential for short-term rental properties.
- Trained and deployed the inference model powering the calculator using a dataset covering tens of thousands of short-term rental listings worldwide.

Full Stack Software Engineer — Web2

01/2024 – 04/2024

- Built a ride-hailing mobile application for a California-based rent-a-car company using the Ionic Framework and Vue.js.

L1 IT Service Desk — Numotion

09/2021 – 12/2023

- Supported internal teams by phone with printer, network and computer problems, closing 50+ tickets per day.

PROJECTS

- **PisoPhone (pisophone.org)** — Founder of a BYOD phone rental SaaS for small businesses in Cebu City. Built a FastAPI backend and Next.js frontend served from a self-managed VPS, a Kotlin Android agent that locks each phone outside paid sessions, a Node.js and Express Messenger chatbot for customer flows, and a self-hosted Grafana, Loki and Prometheus monitoring stack. Live in its first shop, 2 of 5 phones connected so far.
- **TouchSomeGrass** — Android application built to interrupt doomscrolling and help users reduce compulsive screen time.

EDUCATION

Bachelor of Science in Information Technology

Asian College of Technology, Main Campus, Cebu City, Philippines | 2019 – 2024