John Michael Luz

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ABOUT ME

AI engineer who builds production LLM agents and real-time voice AI. As a founding engineer at Chirp, built two AI sales products end to end: a multi-agent sales workspace with generative UI, and a real-time voice assistant that reads and updates a rep's CRM by voice. Comes from full-stack web work, so the agents ship as real products and not just demos.

WORK EXPERIENCE

AI ENGINEER – CHIRP – 1 Oct 2024 – Current – SYDNEY, AUSTRALIA

- Founding engineer at an early-stage sales-AI startup. Built two products end to end: a multi-agent AI sales workspace (Mastra, LangGraph, LangChain) and Birdie, a real-time voice AI sales assistant (LiveKit, Pipecat).
- Owned the AI layer: agent and tool design, RAG and memory, prompt engineering, evals (Braintrust, Cekura) and observability (PostHog).
- Built the backend and data layer: Python (FastAPI + Inngest) workers and Trigger.dev jobs that sync CRM, email, calendar and meeting transcripts into Postgres (Supabase).
- Ran infrastructure and delivery: AWS ECS Fargate via Pulumi, Vercel, CI/CD, plus the Next.js web app and React Native (Expo) mobile releases.

TECHNICAL LEAD / FULL STACK DEVELOPER – FIXTMAN LLC – 1 Jan 2023 – 30 Sep 2024 – UNITED STATES

- Led the web and mobile teams and coordinated delivery across both.
- Designed the backend for FixTman's web, mobile and internal ERP/CMS apps (Express, Redis, MySQL, MongoDB).
- Set up CI/CD with Jenkins and managed the UpCloud/AWS server infrastructure.

IT SOFTWARE PROGRAMMER – SAL-TECH EASY PACKAGING – 1 Aug 2022 – 31 Dec 2022 – TINGLEV, DENMARK

- Built a full-stack ERP (Angular + Node.js) to track products and create invoices.
- Maintained the company's server and webshops.

WEB DEVELOPER INTERN – ATENEO DE NAGA UNIVERSITY – 1 Jan 2021 – 30 Jun 2022 – NAGA CITY, PHILIPPINES

- Built CodeC, a competitive programming platform (Angular + Django), with in-browser code execution and automated grading.

EDUCATION AND TRAINING

JUN 2018 – MAY 2022 Naga, Philippines
BACHELOR'S DEGREE IN COMPUTER SCIENCE Ateneo de Naga University

PROJECTS

1 MAY 2026 – CURRENT
Birdie: Voice AI Sales Assistant

- Built a real-time voice agent that lets sales reps debrief meetings and update HubSpot, Salesforce or Attio by speaking. It uses LLM function tools, shows live UI cards the rep can edit, and routes each spoken turn to a mode with an LLM classifier (93% accuracy).
- Built a low-latency voice pipeline over self-hosted WebRTC. Benchmarked memory (Mem0 vs knowledge graph vs Postgres search, shipped at p95 0.66 s), web search APIs, and how accurately speech-to-text recognises names. Tested the agent with Cekura simulated calls.

1 MAR 2025 – 30 APR 2026

Chirp Sales Workspace: Multi-Agent AI CRM Assistant

- Built an AI sales workspace where reps manage deals by chatting with a team of agents. A supervisor agent hands work to research and CRM agents. Replies render as interactive UI components (generative UI) such as deal scores, meeting agendas and draft emails, not just text.
- Built the multi-step AI pipelines:
  - a 7-category deal scoring workflow
  - pre-meeting briefs
  - automated company and prospect research (Tavily)
  - pulling deal and contact details out of transcripts and emails, pausing for the rep to confirm before saving
- Added RAG over company documents with pgvector and connected HubSpot and Google Calendar as agent tools through Pipedream MCP. Traced and evaluated the agents with Braintrust.

1 JAN 2023 – 30 SEP 2024

FixTman Website

- Built fixtman.com, the company's main website, with a booking system that matches technicians to job requests.

Link https://fixtman.com/

1 JAN 2023 – 30 SEP 2024

FixTman ERP & CMS

- Designed the backend and built the frontend for FixTman's internal ERP and content management system, used by both its web and mobile apps.

SKILLS

LLMs & agents

OpenAI | Anthropic Claude | Mastra | LangGraph | function/tool calling | MCP | Vercel AI SDK | LangChain | generative UI | prompt caching

Voice AI

LiveKit Agents | Cartesia | Pipecat | WebRTC | Deepgram

RAG & memory

pgvector | Tavily / Exa web search | Mem0 | Cognee | Postgres full-text search

Evals & observability

Braintrust | Cekura | PostHog

Backend

Python | Redis | Express | MongoDB | NestJS | FastAPI | Inngest | Postgres/Supabase | Trigger.dev | Node.js | MySQL

Frontend & mobile

TypeScript | Angular | Tailwind | React | Next.js | React Native/Expo

Infra

AWS (ECS Fargate) | CI/CD (Jenkins, GitHub Actions) | Pulumi | Vercel | Docker