DAVID LOIS

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SUMMARY

Software Engineer at Masterhooks and Computer Science graduate of Universitas Gadjah Mada (GPA 3.97) with over three years of experience building full-stack products end to end. I have built subscription and billing systems, asynchronous job pipelines, AI generation pipelines, and multi-platform data collection services, and I own their delivery through CI/CD, Kubernetes, and monitoring. I work mainly with TypeScript, Next.js, Python, FastAPI, Go, and PostgreSQL.

EDUCATION

GADJAH MADA UNIVERSITY (UGM) *Yogyakarta, Indonesia*
B.Sc., Majoring in Computer Science *Aug 2022 - Feb 2026*

- GPA: 3.97/4.00
- Scholarship: TANOTO Foundation, TELADAN Program

WORK EXPERIENCE

MASTERHOOKS *Remote*
Software Engineer *September 2026 – Present*

- **Trends by Masterhooks**: A creator intelligence platform that curates viral short-form trends for creators and marketers, which gained about 250 user accounts in its one-month pre-release. I implemented two full redesigns of the website and built the core logic for gathering creator and content data from YouTube, TikTok, Instagram, and X. I also own the deployment and CI/CD pipelines that keep the web app working end to end.
- **Mastershorts**: A production management platform that takes short-form videos from idea through script, voiceover, assets, and editing to a published post. I started the ground-up rewrite and built most of the platform, including direct TikTok and Instagram publishing and real-time updates for the whole team.
- **Rali**: A UGC creator marketplace where brands discover and hire content creators. I led the rebuild from a legacy monolith into a Next.js frontend and a FastAPI backend, including an Auto-Apply engine that completes job applications with an LLM and streams each step live to the user.
- **Support & Team Platforms**: Self-hosted Chatwoot (customer support; 17 agents, 4 inboxes, 1,600+ contacts and 120+ conversations in its first month) and Rocket.Chat (community chat; migrated 1,800 members and 8,600+ messages across 27 channels), managed as code with Ansible. Built LLM support agents that answer from a knowledge base and hand off to humans, plus email and website-form intake into the support inbox.

Tech Stack & Skills: Astro, Next.js, React, TypeScript, FastAPI, Python, Supabase, PostgreSQL, Drizzle, Prisma, Stripe, Playwright, Docker, Ansible, Vercel, GitHub Actions

DEWAWEB *Jakarta, Indonesia*
Application Developer *August 2025 – September 2026*

- **Arcane**: An AI app builder that turns a chat description into a working full-stack web app with live preview, click-to-edit, and custom domain publishing, with about 100 registered users. I built the majority of the frontend, designed and built the AI generation pipeline that validates and repairs every generated app, developed backend services, and set up the Kubernetes and GitLab CI/CD infrastructure.
- **SiteProtect.ai**: An AI-powered vulnerability scanning and risk reporting service sold on subscription, with about 100 paying businesses and 300 domains under active scanning. As a primary developer across the full stack, I set up its Clean Architecture and DDD structure, took part in building the subscription and billing system (auto-debit and manual invoicing, plan changes, automated renewal and overdue handling), and set up asynchronous pipelines on RabbitMQ and Celery for report generation and billing jobs.
- **Dewaweb AI Domain Advisor**: A tool that uses AI to suggest unique, brandable domain names based on business context. I developed the application and its customization filters to enhance the core domain registration business. The tool improved the customer onboarding experience and supported the company's primary business model.
- **Engineering Process & Infrastructure**: I set up the team's software development lifecycle (standups, environments, and code reviews) and the delivery pipeline behind it: GitLab CI/CD with staging and production approval gates, feature flags, and Prometheus and Grafana monitoring.

Tech Stack & Skills: Next.js, TypeScript, Python, FastAPI, PostgreSQL, Redis, RabbitMQ, Celery, LiteLLM, Kubernetes, Docker, Ansible, GitLab CI, Prometheus, Grafana

PORTIER GLOBAL *Yogyakarta, Indonesia*
Cloud Engineer - Bangkit Academy Capstone *October 2024 – December 2024*

- **Portier KeyOnTheGo**: A mobile and cloud-based locking management application designed to replace restrictive desktop-based signature processes with a portable digital solution. I architected and managed the cloud infrastructure on Google Cloud Platform (GCP) to support digital signature collection, real-time geolocation tracking, and centralized request management.
- **Impact**: The project was awarded **Best Capstone Project**, successfully enabling secure "anytime, anywhere" access for directors while increasing operational flexibility for system administrators.

Tech Stack: GCP, Golang, Terraform, Authentik

ORGANIZATION EXPERIENCE

ORGANISASI MAHASISWA AHLI TEKNOLOGI INFORMASI (OMAHTI) - *Student IT Club* *Yogyakarta, Indonesia*
Front-End Developer/Lead *October 2022 – January 2025*

- Led front-end development across nine organizational and client web projects, setting the code quality and architecture standards for the team.
- Ran weekly knowledge-sharing sessions and built a technical curriculum on modern web technologies.

ADDITIONAL

Achievements:
Best Company Track Capstone Project - Bangkit Academy *November 2024*
Cloud Computing Student

PIMNAS 36 National Finalist (PKM-Karsa Cipta) *November 2023 - December 2023*

Languages:
Indonesian, English (full professional proficiency), Chinese (HSK 4 Level; currently pursuing HSK 5)

Technical Skills:
Languages: TypeScript, Python, Go, SQL, PHP.
Backend: FastAPI, Node.js, PostgreSQL, Redis, RabbitMQ, Celery, Supabase.
Frontend: React, Next.js, Astro, Tailwind CSS.
Cloud and DevOps: Kubernetes, Docker, Terraform, Ansible, Google Cloud Platform, GitLab CI, GitHub Actions, Prometheus, Grafana.
AI: LiteLLM, assistant-ui.
Practices: Domain-Driven Design, Clean Architecture.