001 / SIDINURHALIM-PORTFOLIO

Build it. Ship it. Keep it running.



Sidi Nurhalim · DevOps Engineer

DevOps engineer with a full-stack and iOS background. AWS certified, with hands-on Kubernetes, Terraform, CI/CD and observability.

16	2	2	4
projects built	App Store apps	cloud platforms · AWS, GCP	DevOps case studies

EXPLORER

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001 / WHAT I DO

Three lines of work, one way of working.

DevOps

Pipelines, infrastructure and observability that keep things running.

- Jenkins and Atlantis pipelines for apps and infra
- Terraform and Ansible across 3 AWS environments
- EKS, GKE and self-managed Kubernetes with Argo CD
- Self-hosted LGTM observability

`AWS` `Kubernetes` `Terraform` `Argo CD` `Jenkins` `Grafana`

Full-stack

Product-minded web apps, from requirements to production.

- Skeeper, a Go and React SQL portal on GKE
- 8+ internal features with React and Laravel
- BRDs, PRDs and SIT/UAT for B2B integrations

`React` `Go` `Next.js` `Laravel` `PostgreSQL` `TypeScript`

iOS

Native apps, shipped to the App Store.

- 2 App Store apps from the Apple Developer Academy
- 1 of 6 Catalyst teams from 30+
- Multiplayer AR with ARKit and SceneKit

`SwiftUI` `Swift` `ARKit` `SceneKit` `AVFoundation` `Xcode`

SKILLS

Container and orchestration	`Docker` `Kubernetes (EKS, GKE, self-managed)` `Helm` `Kustomize` `Argo CD`
IaC and CaC	`Terraform` `Atlantis` `Ansible`
Cloud	`AWS (EC2, EKS, IAM, VPC, ALB, Lambda, Route 53, S3)` `GCP (GKE, Cloud SQL, Secret Manager)`
CI/CD	`Jenkins` `Bitbucket Pipelines` `GitLab` `GitHub Actions`
Observability	`Grafana` `Loki` `Prometheus` `Mimir` `VictoriaMetrics` `Tempo` `Alloy` `OpenTelemetry`
Quality and security	`SonarQube` `Checkov` `TFLint` `Gitleaks` `Infracost` `Molecule`
Others	`Linux` `Bash` `Python` `Go` `Git`

002 / PROJECTS

Things I built.

Apps, platforms and tools across DevOps, full stack and iOS, newest first.



RandL

IOS · 2024 - PRESENT

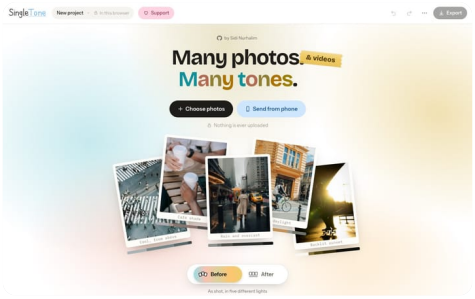
PINNED

Smart practice pad and iOS app giving drum learners live feedback on their rudiments.

RandL is a smart drum practice partner combining an IoT-enabled practice pad and an iOS companion app. It helps drum learners practice rudiments effectively by providing feedback, tracking progress, and enhancing learning experiences. As Co-Founder, I worked on ideation, design, and iOS development using SwiftUI, SwiftData, and Core Bluetooth. RandL is currently live on the App Store and in active go-to-market execution.

`SwiftUI` `SwiftData` `Core Bluetooth` `AVFoundation` `Arduino` `UI/UX`

View on App Store → View in portfolio →



SingleTone

FULL STACK · NOVEMBER 2026

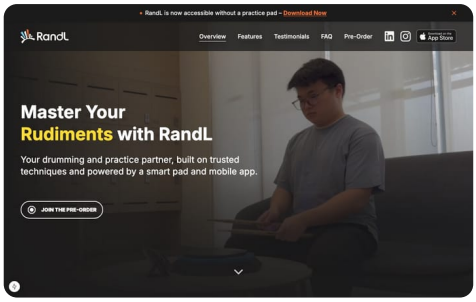
PINNED

Browser editor that matches colours across a creator's photo and video sets, on-device.

A browser-only editor for sets of up to 10 photos and videos: one shared Look, colours matched across the whole set, and a live palette Thread showing whether they belong together. A studio-style UI (tool rail for Photos/Looks/Match/Adjust/Story, the whole set in a grid, double-click to focus) runs entirely on the GPU (WebGL2) with a non-destructive shader pipeline across 18 film-style Looks, preserving Display P3 colour, EXIF, and HDR on export. Videos are decoded and encoded in-browser via WebCodecs (Mediabunny), with the same looks, trimming, and lighting fix. The Story tool lays the set out into 9:16 Instagram Stories, and projects persist locally (IndexedDB) so a reload picks up where you left off. Flash-style looks can optionally run an on-device AI model to light just the subject. Nothing is ever uploaded to a server.

`React` `TypeScript` `Vite` `WebGL2` `WebCodecs` `Transformers.js`

Visit site → View in portfolio →



RandL Landing Page

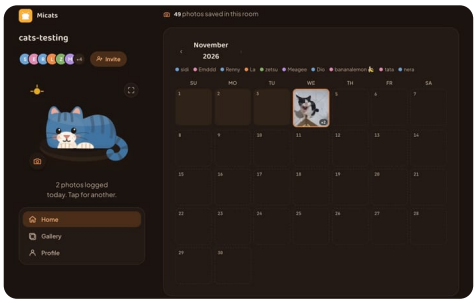
FULL STACK · OCTOBER 2026

Marketing site for RandL that explains the pad and collects pre-orders with referrals.

Marketing site for RandL (randlpad.com), a drumming-rudiment practice pad plus iOS app. Explains the product and collects pre-order/waitlist signups for limited pad batches: a live slot counter and referral codes post to a Google Apps Script-backed sheet, with a Nodemailer confirmation email and full GTM/Google Ads conversion tracking on every CTA. Built with Next.js 15 and Tailwind CSS v4.

`Next.js` `TypeScript` `Tailwind CSS` `Framer Motion` `Nodemailer`

Visit site → View in portfolio →



MiCats

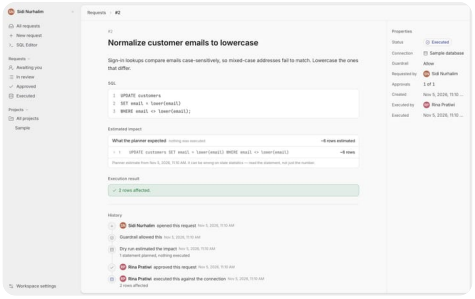
FULL STACK · SEPTEMBER 2026

Social app where cat-loving friends collect each other's cat photos in shared rooms.

A shared 'room' app for logging a daily photo with a partner or friend group. Each room centers on a cat mascot button, idle asleep by default and peeking awake on hover, that opens the camera/file picker on tap and celebrates a successful upload with a little heart burst. Rooms are joined via a short code, each member picks their own cat coat color, and photos land on a shared timeline with a lightbox. Built with Next.js, NextAuth, Prisma/PostgreSQL, and Supabase for photo storage.

`Next.js` `TypeScript` `NextAuth` `Prisma` `PostgreSQL` `Supabase`

Visit site → View in portfolio →



Skeeper

DEVOPS / FULL STACK · SEPTEMBER 2026

SQL portal that routes engineers' database changes through approval and audit logs.

A Go and React SQL portal on GKE connecting multiple PostgreSQL instances, with credentials in Secret Manager. Writes go through a submit-and-approve workflow with role-based access, and every execution is audited.

`Go` `React` `GKE` `PostgreSQL` `Secret Manager`

View in portfolio →

My Agents

FULL STACK · AUGUST 2026

Self-hosted platform for running always-on AI agents from chat, API, cron or webhooks.

A self-hosted platform for running always-on AI agents, each with its own persona, role, and bring-your-own-model (Anthropic Claude, or any OpenAI-compatible endpoint via LiteLLM). Agents can be triggered through a chat console, REST API, cron schedules, or webhooks, with every trigger producing a task tracked on a unified Task Board. Built with a Next.js/TypeScript frontend and a Go backend (chi router, layered API/service/store design) on PostgreSQL, with API keys encrypted at rest (AES-256-GCM).

STACK

Next.js · TypeScript · Go · PostgreSQL · Claude API · Docker

LINKS

View on GitHub →

View in portfolio →

ContainerGUI

DEVOPS / IOS · JULY 2026

Native macOS app giving Apple's container tool the GUI it never officially shipped with.

A minimal native macOS app (SwiftUI) that gives Apple's `container` CLI a graphical interface, without reimplementing any of its underlying logic. It shells out to the container binary and parses its JSON output directly, showing running containers (name, image, state, ports) with per-container Start/Stop controls, plus a tab listing available images by name, tag, and digest. Deliberately scoped to read/list/start/stop only, no log viewing or interactive exec.

STACK

Swift · SwiftUI · macOS · Swift Package Manager

LINKS

View on GitHub →

View in portfolio →

Ops Bot

DEVOPS / FULL STACK · JULY 2026

Telegram bot that lets on-call engineers triage incidents and review PRs with Claude.

A Claude-powered Telegram bot for incident triage, PR review, and infra ops. It blends local Bitbucket tools with five MCP servers (Grafana, AWS, SonarQube, Jenkins, Git) behind one unified tool registry, so Claude can check incidents, review or fix pull requests, and report back in chat, with AWS access enforced read-only and a small FastAPI admin panel to toggle tool groups per Telegram chat.

STACK

Python · Telegram · FastAPI · Claude API · MCP · AWS

LINKS

View on GitHub →

Read case study →

View in portfolio →

Infrastructure Metrics Bot

DEVOPS / FULL STACK · MAY 2026

Chat bot that answers engineers' Prometheus questions on the go, in plain language.

A chatbot for natural-language querying of Prometheus metrics. Users ask a question in plain language, Claude (via AWS Bedrock) translates it into PromQL, runs it against Prometheus, and replies in plain language, with a refinement loop that retries the query if the first attempt returns no data. Ships as two implementations, WhatsApp (dynamic ~600-metric discovery) and Telegram (curated metric list with 4-turn conversation memory), plus Grafana alert routing straight into Telegram with silence URLs.

STACK

`Go` `Claude API` `Prometheus` `Telegram` `WhatsApp` `Grafana`

LINKS

View on GitHub →

View in portfolio →



paten.ai

FULL STACK · 2025 - PRESENT

AI platform that helps inventors draft patents and search prior art in one workflow.

paten.ai is an AI-powered platform that simplifies patent drafting and prior art search. It integrates vector-based similarity search and drafting tools into one workflow, helping inventors reduce rejection risks and accelerate innovation. Built with Laravel, FastAPI, Milvus, and Transformers, paten.ai provides a scalable and efficient solution for patent professionals.

`Laravel` `FastAPI` `Milvus` `Transformers` `Elasticsearch` `RabbitMQ` `Docker`

Visit site → View in portfolio →



SIAP PPAK

FULL STACK · 2023

Case system replacing paper notebooks for Surabaya's women and child protection unit.

SIAP PPAK (Sistem Informasi dan Aksi Pelaporan Perlindungan Anak dan Perempuan) is a web-based reporting and case management system for the Surabaya Task Force for the Protection of Women and Children. It digitizes reporting, monitoring, and case handling processes to replace the manual notebook system. I worked as a Frontend Developer and UI/UX Designer using ReactJS, Laravel, and Figma.

`ReactJS` `Laravel` `Figma`

Open document → Visit site → View in portfolio →



OEE Dashboard

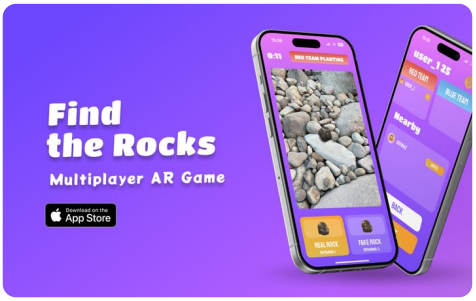
FULL STACK · JUNE 2025

Real-time dashboard giving Avian Brands live performance of every paint filling line.

A web-based dashboard developed during my internship at Avian Brands. It monitors paint production by fill-in machines in real time, providing overview dashboards, section insights, and detailed line-level performance. Redesigned and developed with React, Laravel, Inertia.js, and HighCharts to improve usability and operational efficiency.

`ReactJS` `Laravel` `Inertia.js` `HighCharts` `Figma`

View in portfolio →



Find the Rocks

IOS · 2024

Multiplayer AR treasure hunt game where nearby friends hunt real and fake 3D rocks.

Find the Rocks is a multiplayer AR treasure hunt game that brings traditional scavenger hunts into a digital experience. Built with SwiftUI, ARKit, and Multipeer Connectivity, it allows players to create rooms and play with nearby friends, using 3D rocks (real and fake) to add challenge and fun. Two versions were released on the App Store.

`SwiftUI` `ARKit` `SceneKit` `Multipeer Connectivity` `Blender` `Figma`

View on App Store → View in portfolio →



Amidogs

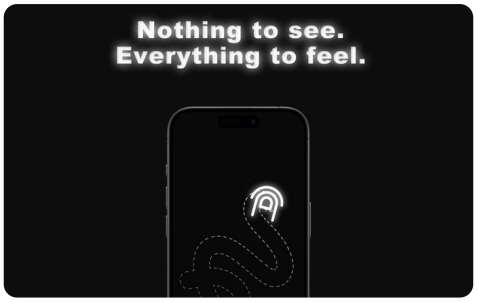
IOS · AUGUST 2024

Gamified auto-feeder and iOS app that eases dogs' separation anxiety at mealtime.

Amidogs is a gamified automatic dog feeder integrated with an iOS app. It helps reduce separation anxiety in dogs by turning feeding into an engaging activity. The system alternates feeders to keep the dog active and records session details in Supabase. Built with Arduino and SwiftUI.

`Arduino` `SwiftUI` `Supabase` `IoT`

View in portfolio →



By Gesture

IOS · 2025

iOS fidget app with gesture haptics that keeps people with ADHD off distracting apps.

By Gesture is an iOS app designed for individuals with ADHD to reduce distractions and maintain focus. Acting like a digital fidget spinner, it provides haptic feedback based on user gestures, helping users stay engaged without opening other apps.

SwiftUI · UIKit · AudioToolBox

View in portfolio →



Stay on Budget

IOS · 2024

Shopping simulation game that teaches impulsive buyers to stick to a fixed budget.

Stay on Budget is a shopping simulation game that delivers a subtle critique on impulsive buying. Players are given a set budget and must keep track of spending without undoing their choices, encouraging mindful decision-making. Built with SwiftUI and Figma.

SwiftUI · Figma

View in portfolio →

003 / CASE STUDIES

Write-ups with more depth.

DevOps case studies from the Apple Developer Institute, each with its own in-depth page online.

01

Procal on EKS

DEVOPS · CASE STUDY

Kubernetes migration moving Procal from a kubeadm cluster to EKS, run by ArgoCD GitOps.

Migrated Procal onto Kubernetes: from a hand-run kubeadm cluster to EKS driven entirely by GitOps (ArgoCD + Argo Rollouts), with zero static AWS credentials anywhere via Pod Identity.

EKS · ArgoCD · Argo Rollouts · Helm · Kaniko

Read the case study →

02

Launchpad

DEVOPS · CASE STUDY

Platform design that deploys AI-built apps to ECS Fargate through a cost-gated pipeline.

A multi-tenant platform design that turns AI-builder/vibe-coded apps into ECS Fargate deployments: cost-gated pipeline, AWS-SDK-direct provisioning with a write-ahead resource ledger, orchestrated by Step Functions.

Step Functions · ECS · CodeBuild · CloudFront · RDS

Read the case study →

03

Procal

DEVOPS · CASE STUDY

GitOps rebuild of a cost-approval platform off ClickOps, with Terraform and Atlantis.

A 4-service cost-estimate & approval platform, moved from ClickOps and manual SSH deploys to Terraform + Atlantis GitOps, with Jenkins-driven Ansible/Packer pipelines and per-service Grafana monitoring.

Terraform · Atlantis · Jenkins · Ansible · Grafana

Read the case study →

04

aform

DEVOPS · CASE STUDY

Airtable Forms clone that never loses a submission under load, using a RabbitMQ queue.

An Airtable Forms clone built around a queue-decoupled write path (RabbitMQ + worker), with a hardened deployment flow: systemd, Nginx, UFW, S3-backed backups, and a real k6 load test.

Go · RabbitMQ · AWS · Prometheus · Nginx

Read the case study →

004 / EXPERIENCES

Where I worked.

Work and education, most recent first, then certifications and achievements.

WORK

Sep 2026 - Nov 2026

Remote, via Apple Developer Institute

NOW

Nanovest

DevOps Engineer Intern

- Built Skeeper, a Go and React SQL portal for controlled, auditable database changes across multiple PostgreSQL instances.
- Credentials in Secret Manager; writes go through a submit-and-approve workflow with role-based access and full audit logging.
- Runs on GKE across 4 environments, deployed via Terraform, Bitbucket Pipelines, Jenkins, Helm and Argo CD.
- Serves 35 registered engineers and was promoted from pilot to production use.

`Go` `React` `GKE` `PostgreSQL` `Terraform` `Argo CD` `Secret Manager`

Apr 2026 - Nov 2026

Apple Developer Institute for DevOps, South Tangerang

NOW

Apple Developer Institute

DevOps Engineer Trainee

- Hands-on DevOps program covering networking, databases, CI/CD, IaC/CaC, monitoring and AWS cloud infrastructure.
- Built and maintained CI/CD for both application delivery (Jenkins) and infrastructure delivery (Atlantis: plan, policy check, apply).
- Provisioned AWS infrastructure across 3 environments with Terraform and Ansible.
- Set up a self-hosted LGTM observability stack and ran a monitoring cost investigation to control spend.
- Deployed workloads to EKS and self-managed Kubernetes with Helm, Kustomize and Argo CD.
- Developed an internal MCP-based ops bot exposing 45+ tools connecting Claude to AWS, Bitbucket, Grafana, SonarQube and Jenkins for incident triage and PR review.

`Terraform` `Atlantis` `Ansible` `Jenkins` `AWS` `EKS` `Argo CD` `Grafana` `Docker`

Jun 2025 - Mar 2026
Surabaya

Sampoerna

IT B2B Product Analyst

- Bridged the Commercial Innovation division and engineering teams building MY HERO, a B2B application product.
- Gathered and documented business requirements, translating them into clear specifications for engineering.
- Designed test cases and facilitated SIT, UAT and end-to-end testing to validate readiness.
- Supported go-live and production validation across integrations with SAP, WMS, DMS, TMS and distributor systems.

`Requirement Analysis` `SIT/UAT/E2E Testing` `Stakeholder Management` `SAP` `WMS/DMS/TMS`

Jan 2025 - Jun 2025
PT Avia Avian Tbk., Surabaya

Avian Brands

Software Engineer Intern

- Contributed to the Software Engineering and Automation division, improving internal systems for operational efficiency.
- Owned the full development cycle in React and Laravel, from requirements analysis and solution design to delivery, and demoed each finished feature to end users for feedback.
- Shipped 8+ development tickets spanning frontend and backend work.

`React` `Laravel` `JavaScript` `PHP` `MySQL` `Git`

Jan 2024 - Aug 2025
Apple Developer Academy @ UC and Catalyst, Surabaya

Apple Developer Academy

Software Engineer Intern

- Catalyst, a 2nd-year incubation program for selected first-year Apple Developer Academy projects, focused on post-development stages such as product launch and release.
- Selected as 1 of 6 teams from 30+ graduating teams across Indonesia for Catalyst Program funding.
- Released 2 production apps on the App Store within a 10-month development program.
- Reached 12,000+ impressions and 500+ downloads through marketing partnerships over 6 months.
- Achieved Top 3 at the Digital ASEAN Awards Indonesia regional competition.

`Swift` `SwiftUI` `AVFoundation` `ARKit` `SceneKit` `Figma` `Xcode`

EDUCATION

Jul 2021 - Jun 2025
Surabaya

Petra Christian University

Bachelor of Business Information Systems

- Bachelor of Business Information Systems, GPA 3.82 / 4.00.
- Final project: a patent similarity checking system.

HIMAINFRA 2023/2025

Jul 2023 - Jul 2025 · Surabaya, Indonesia

Deputy Head of Internal Development Department · Creative Communication Department

Student union for IT, Business Information Systems, and Data Science students at Petra Christian University.

- Led and coordinated 8+ development programs reaching 100+ students, managing a team of 5+ through annual planning and evaluation.
- Redesigned 3+ session formats, measurably improving student engagement.
- Completed 50+ design tasks across Instagram, LINE, and the official website, producing 3+ content pieces weekly for campaigns.

Informatics Welcome Grateful Generation

Jun 2023 - Jul 2023 · Surabaya, Indonesia

Coordinator of Creative Division

- Led all event visuals for orientation week, reaching 250+ incoming students.
- Coordinated visual support across 4 divisions and delivered 20+ assets on schedule.

CERTIFICATIONS

AWS SAA-C03	AWS Certified Solutions Architect, Associate
AWS AIF-C01	AWS Certified AI Practitioner
Dicoding	Architecting on AWS
AWS AI Academy	Intermediate AWS AI Academy 2026

ACHIEVEMENTS

1st Place	Hackfest 2025 (Build to Billion)
3rd Runner-Up	East Java KIM Hackathon 2023
Finalist	UI/UX Business and System Innovation Challenge 2023

005 / CONTACT

Say hello.

Open for projects

Available for freelance and contract work: cloud infrastructure and CI/CD, full-stack web apps, and native iOS apps. Remote, based in Indonesia (WIB).

DevOps & cloud | Full-stack web | iOS apps

CONTACT.JSON

```
{
  "email": "sidiaurelius@gmail.com",
  "linkedin": "linkedin.com/in/sidi-praptama-aurelius-n",
  "github": "github.com/sidipraptama",
  "whatsapp": "+62 821-4194-2965",
  "cv": "sidinurhalim.dev/Sidi Nurhalim_CV.pdf",
  "site": "sidinurhalim.dev"
}
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Scan for the live portfolio

Thanks for reading.

Everything here is live, with more detail, on the site.

Open the live portfolio → | Download CV →

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