



VISHAL KATARIYA

AI / ML

FULL STACK

DEVOPS / INFRA

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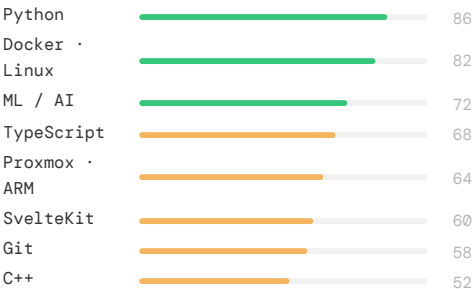
github.com/vkkatariya

vishal-katariya.com

Darmstadt, Germany

Open to work

TECHNICAL SKILLS



BACKEND & INFRA

Fastify WebSocket REST API PostgreSQL
Drizzle ORM Docker Caddy Tailscale Git
Proxmox VE KVM ARM64

AI & ML

QLoRA fine-tuning Unsloth Ollama
LLM inference Hugging Face rKLLama (NPU)
PyTorch GGUF

FRONTEND

SvelteKit TypeScript Chart.js Vanilla CSS
Motion One

HOSTING & DEPLOYMENT

Vercel Tailscale Hybrid deployment
GitHub Actions

SOFT SKILLS

Problem-solving Technical writing
Systems thinking Research & analysis
Teamwork open-source

LANGUAGES

Deutsch C1
English C1
Hindi Native
Gujarati Native

INTERESTS

- Programming**
Coding since 10th grade — now building production systems.
- Artificial Intelligence**
Fine-tuning LLMs and running inference on edge NPUs.
- Cricket**
Played since childhood — strategy, patience, team dynamics.
- Entrepreneurship**
Studying how companies scale — building toward orlon.

EDUCATION

HOCHSCHULE DARMSTADT · GERMANY

B.Sc. Computer Science

Oct 2024 - Expected 2028

MODULES COMPLETED

Algorithms & Data Structures Object-Oriented Programming Mathematics for CS
Computer Architecture Database Systems Operating Systems Software Engineering
Computer Networks

PROJECTS

Finance Buddy

Self-hosted 7-tab finance tracker built from 993 real transactions across 44 months. Waste audit identified €3,656 in avoidable spend across 13 categories; savings plan runs 3 projection scenarios — status quo, budget, and aggressive.

STACK SvelteKit Fastify PostgreSQL Drizzle Chart.js

Homelab Dashboard

Real-time ops dashboard for a 2-node Proxmox cluster (48GB RAM, ARM64 + x86_64) with live CPU/RAM/network metrics via WebSocket. Debugged Docker bridge network isolation — replaced localhost with host.docker.internal to restore reachability.

STACK Fastify WebSocket Docker Tailscale Proxmox VE

orlon-bot

Telegram bot powered by a custom QLoRA fine-tuned LLM (Llama 3.2 3B). Built a privacy-aware Discord→JSONL data pipeline with PII scrubbing, trained on Kaggle T4 via Unsloth, and deployed to an ARM NPU for on-device inference.

STACK Python QLoRA Unsloth Telegram rKLLama

Portfolio Website

Hybrid-hosted SPA — public routes on Vercel's CDN edge, private /me/* routes behind Tailscale + Caddy IP allowlist on a self-hosted ARM64 node. Multi-stage GitHub Actions CI runs HTML lint and Playwright E2E before every deploy.

STACK SvelteKit Vercel Tailscale Caddy Playwright

Hermes One OAuth Fork

Patch project adding Nous Portal OAuth and single-use WebSocket ticket minting to a community Electron client. Diagnosed a cross-process cookie isolation bug causing silent auth failures; shipped across 13 merged PRs with 38/38 tests passing.

STACK Electron TypeScript React Vitest better-sqlite3

WORK EXPERIENCE

Fulfillment Associate

Amazon DNW4 · Duisburg, Germany

Jul 2024 - Dec 2024 · 6 months

- Precise sorting, scanning, and organizing of packages by delivery route for efficient shipping operations.
- High-throughput logistics operations in a fully German-language environment.
- Package tracking and inventory management using warehouse systems.
- Cross-shift coordination; independent fault identification and resolution.