

WILLEM JOHANNES SMITH

FULL STACK ENGINEER

React · TypeScript · Go · Docker · CI/CD

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📍 Abu Dhabi, UAE

Full-stack engineer who ships and owns production systems end to end — React / Next.js and Go / Node on Dockerized CI/CD — with a low-level C / C++ foundation from 42 Abu Dhabi and a growing focus on agentic AI.

EXPERIENCE

Suportech Embedded

Apr 2026 – Present

Embedded Software Developer · Part-time

- Developing desktop software in **Python** (PyQt5 front end, Flask backend) with automated **CI/CD** release delivery.
- Implemented data security with **envelope encryption (DEK / KEK)** to protect sensitive data at rest.
- Built an application updater with a **CI/CD pipeline** that publishes versioned executables to a registry for automated rollout.
- Authoring **unit tests** on GitHub Actions (windows-latest) runners, with changes gated by code review before merging to dev.

Ratchet Capital

Apr 2024 – Apr 2026

Full Stack Developer · Abu Dhabi, UAE · Full-time

- Shipped through a code-review-gated Git workflow — feature branches reviewed before merging to **dev**, with weekly **dev** → **main** production releases.
- Megastars.ai v2** Next.js · Supabase · TypeScript · Cloudflare
 - Supported **500+ active influencers** at **99.9% uptime** and 10K+ daily auth requests, delivering full-stack features across the Next.js / Supabase platform.
 - Configured multi-provider OAuth (Instagram / TikTok / YouTube), built dashboard features, and improved landing-page SEO.
- Influenz — Megastars.ai v1** Tech Lead Vue · Gin (Go) · Node · PostgreSQL · Docker
 - Led a 4-developer team architecting a **4-service Dockerized microservices** platform behind Nginx — Vue / Vite frontend, Gin (Go) API, a dedicated Node OAuth 2.0 / identity service, and PostgreSQL.
 - Standardized environments with separate **dev and prod Docker Compose** stacks driven from a root Makefile, sharing inherited service definitions for DRY config and clean separation of concerns.
 - Provisioned **staging and production DigitalOcean droplets** on self-hosted Linux GitHub Actions runners, with a rolling-deploy workflow and automated rollback.
- Verif-y** Frontend Developer React Native · Expo · TypeScript
 - Cut document-verification time **~60%** with a cross-platform iOS / Android app — canvas signature capture and skeleton loading.
- ioMega Energy** Solo Eleventy · SASS · Docker · Nginx · GSAP
 - Scored **95+ Lighthouse** and cut CSS 60% on a production SEO site with sub-2.1s loads; zero-downtime rolling deploys via GitHub Actions.
- Trescudo** Solo Eleventy · Nunjucks · Docker · Nginx
 - Hit **98 performance** with 85% image-size reduction (WebP) and sub-100ms responses on a cybersecurity marketing site.

SELECTED PROJECTS

- Jarvis** SwiftUI · Node · llama.cpp · Whisper

A native macOS voice assistant that runs terminal commands and answers from local or cloud LLMs — 42 tok/s on-device within an 18 GB budget.
- Cormonity** Next.js · Cloudflare Workers · Redis

Edge platform on Cloudflare Workers + Redis that keeps shared state in sync globally with low latency under high concurrency.
- Jellybean PM** Astro · GitHub Issues API · TypeScript

GitHub-Issues-powered project-management integration for Astro — drag-and-drop Kanban, sprint planning, milestones, and real-time chat with no external database or SaaS.

42 COMMON CORE PROJECTS

- ft_transcendence** — full-stack multiplayer web app Nuxt.js · Nest.js · PostgreSQL · Docker
- minishell** — Unix command interpreter: parsing, pipes, redirections C
- ft_irc** — RFC-compliant IRC server, socket programming C++

MENTORING & COMMUNITY

Student Tutor

Aug 2022 – Present

Mentor peers on build systems (Makefiles) and memory-management practices at 42 Abu Dhabi.

SKILLS

LANGUAGES

TypeScript · Go · C / C++ · Python · SQL

FRONTEND

React · Next.js · Vue / Nuxt · Tailwind · GSAP

BACKEND

Node / Express · Gin · Flask · Supabase · PostgreSQL · REST · OAuth 2.0

DEVOPS

Docker · GitHub Actions (self-hosted runners) · DigitalOcean · Nginx · Cloudflare · Rolling deploys & rollback

EMBEDDED / DESKTOP

Python · PyQt5 · Flask · DEK / KEK encryption · Unit testing

AI

Claude Code · Agentic workflows · Local LLMs · Prompt engineering

STRENGTHS

Technical leadership · Mentoring · Ownership · Communication · Pragmatic problem-solving · Adaptability · Cross-team collaboration · Attention to detail · Continuous learning

EDUCATION

42 Abu Dhabi

Software Engineering — Common Core
2021 – 2023

Peer-to-peer, project-based curriculum: low-level C / C++, Unix systems, concurrency, networking, algorithms, and DevOps.

ACHIEVEMENTS

42 Common Core Certification

42 Abu Dhabi · Nov 2023

AgentEra AI Hackathon

MOEI × 42 Abu Dhabi — Certificate of Appreciation

LANGUAGES

English Native
Afrikaans Native
Spanish Beginner

REFERENCES

Available on request.