CONTACT

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- Remote while relocating to Portugal
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EDUCATION

2015 - 2019

UNIVERSITY OF CAPE TOWN

Bachelor of Engineering (BEng), Mechanical Engineering

SKILLS

- Python | FastAPI
- JS/TS | NextJS | React
- C# | .Net
- PostgreSQL
- Redis
- Domain-Driven Design
- System & Solutions Design
- Monolith | Headless Architecture
- Microservices
- Security & Policy Review
- Project Management
- Cursor | VS Code
- AWS | Azure | Vercel
- Supabase | Fly.io
- Docker
- Terraform
- Git

LANGUAGES

- English (Fluent)

CORE COMPETENCIES

- System Architecture & Design
- Efficient Solution Development
- Fractional CTO Services
- AI-Enhanced Development Workflows
- Operational Excellence & Technical Resilience

WILLIAM WARNE

SOFTWARE ENGINEER | FRACTIONAL CTO | FOUNDER

PROFILE

6+ years software engineering experience as a fractional CTO, directly involved in 15+ ventures from idea to launch across medical, trading, and AI SaaS platforms. My strengths are solution design, system architecture, and orchestrating AI-enhanced workflows that significantly increase quality, alignment, and speed.

I specialize in greenfield projects and rebuilds where I establish modern practices, workflows, and operations while building. I've worked with a variety of teams and understand how development environments make or break quality—I spot and fix pain points when given the autonomy to do so.

I love working with energetic teams, founders, and clients and am surprisingly outgoing for an engineer.

WORK EXPERIENCE

ZEBRA LABS LTD • Founder

Jan 2024 - Present

KEY PROJECTS

Luma Learn - Tech Lead (Fractional CTO)

Sep 2025 - Feb 2026

Rebuilt high-throughput system for WhatsApp and webapp-based AI conversations with onboarding and resource management. Delivered on aggressive deadline for 100k+ users scaling to 10+ years.

- Redesigned and rebuilt system in 2 months to meet aggressive deadline for 100k+ users
- Achieved sub-3 second message response times through performance optimization and load management
- Established operational processes and practices: centralized business/system design context, AI-enhanced workflows (Cursor), CI/CD pipelines (Terraform, GitHub, Linear)
- Implemented technical resilience: data encryption, logging, monitoring, alerts, dashboards, and operational playbooks
- Designed for modularity and configurability by design to support 10+ year scalability
- Developed and executed game day plan providing stakeholder confidence prior to launch

Clairo AI - Contracted Development

2025-2026

Contracted design and development of backend API system for enterprise readiness.

- Prevented poor implementation of security-sensitive functionality through design-stage review and consultation
- Flagged, graded, and resolved critical backend architectural concerns: request context management, audit capture, circular dependency avoidance

RECENT ACHIEVEMENTS

Jan 2024 - Present

- Redesigned and rebuilt high-throughput system for 100k+ users (Luma Learn) in 2 months with sub-3 second response times
- Designed enterprise-ready backend systems for AI SaaS platforms scaling to enterprise-grade (Clairo AI)
- Built maritime platform ecosystem transforming vessel management across multiple integrated apps (OneSea)
- Established AI-enhanced development workflows and operational processes increasing development speed and quality
- Led technical development across 7+ concurrent projects spanning healthcare, trading, maritime, and AI sectors

WORK HISTORY

Jan 2024 - Present

Zebra Labs LTD

Founder

Feb 2022 - Jun 2024

Sphere

Full stack engineer

Nov 2021 - Feb 2022

Doctorly

Developer

Dec 2019 - Feb 2022

The Delta Studio

Developer

- Implemented technical resilience: data encryption, logging, monitoring, alerts, dashboards, and operational playbooks
- Developed and executed game day plan providing stakeholder confidence for enterprise-grade transition
- Contributed to startup scaling from early-stage to enterprise-grade quality standards

OneSea - Lead Engineer

2023

Maritime platform transforming vessel management through an ecosystem of integrated apps. Single sign-up enables vessels to manage operations, streamline processes, and modernize industry practices.

- Built maritime platform with ecosystem of integrated apps
- Developed Sentry app for embarking/disembarking with real-time manifest
- Created in-port muster app for safety compliance

SPHERE • Full stack engineer

Feb 2022 - Jun 2024

Full-stack development on high-throughput trading platform scale-up for energy and oil markets. Company of 10 people (5 developers) with significant performance and reliability requirements.

- Integrated ML models for real-time voice trading data ingestion and processing
- Designed and implemented complete verticals with focus on performance optimization and system architecture
- Contributed to high-performance trading platform handling critical energy and oil market transactions

DOCTORLY • Developer

Nov 2021 - Feb 2022

Development of the backend API system with a strong focus on Domain-Driven Design error prevention in highly critical platform in the healthcare sector.

- Developed backend API system using Domain-Driven Design for highly critical healthcare platform
- Applied quality processes and methodology to ensure reliability in healthcare sector

THE DELTA STUDIO • Developer

Dec 2019 - Feb 2022

Backend development for founders and corporates spinning out new ventures: corporate reward platforms, social platforms, transport/logistics systems. Progressed from Mechanical Engineering (embedded systems) to junior application developer to leading software projects and operational refinements.

- Designed and developed solutions across diverse client projects: corporate reward platforms, social platforms, transport/logistics systems
- Backend development expertise: headless architecture, Domain-Driven Design, monoliths, and microservices
- Progressed from junior developer to leading software projects and refining operational processes (project management, development, quality assurance)