

Lukas (Luke) Prinsloo



Somerset West, South Africa · Remote / Hybrid (Cape Town) · US East Coast & UK/EU Overlap
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RESPONSIBILITY AS A SERVICE (RAAS) · COMPLETE DELIVERY OWNERSHIP

Writing code is the easy part now. Owning the outcome in production is the job. I take commercial briefs and CTO engineered designs and turn them into tested, working production systems across the stack, covering mobile WebXR and React on the frontend, Node.js and Lambda APIs and Valkey caches in the middle, and AWS deployment pipelines underneath.

"Nothing he has taken ownership of has needed chasing."

Daniel Pettifor, CTO & Principal Architect (20 August 2026). Working alongside a 26 year industry veteran CTO to implement, test, and ship multi tenant features, deployment checks, and live production fixes.

62% Delivery & Releases
Engineering delivery & prod releases at Inner Reality

Multi Repo Estate
Frontend, backend & cloud IaC

QA to Frontend to Platform
Two promotions at Inner Reality (Jul 2023 to Present)

CORE EXPERIENCE · INNER REALITY Jul 2023 to Present · Remote (UK) / Hybrid (Cape Town)

PROGRESSION SPINE: Software QA Engineer (Jul 2023 to May 2024), then Frontend Engineer (Jun 2024 to Jun 2025), then Platform Engineer (Jun 2025 to Present) · Two promotions into full stack and systems ownership across the same production estate.

- PILLAR 1 · Product & Feature Implementation**
- > Built and shipped mobile WebXR and React frontends, rebuilding the in browser MindAR and 8th Wall AR experience in seven days after a vendor collapse, and delivered the self serve *Campaign Creator* application via a phased strangler migration that onboarded paying clients and supported a major enterprise deal.
 - > Delivered a production Partner API in a ten day sprint for a *Global Motorsport Partner* with idempotent tether registration, scoped throttling, and spent link guards, and implemented the CTO's hash tag key pattern and atomic Lua EVAL scripts across cluster Valkey (CROSSL0T safe) for live *Tier 1 Sportsbook* and *National Research Enterprise* prize claim flows.
 - > Built the internal *Asset & Template Studio* in React with Cognito authentication, AWS CDK deployment, comprehensive unit test coverage, and an in browser iframe proxy preview harness, alongside a five day RCS and WhatsApp conversational state machine and voucher delivery flow.
- PILLAR 2 · Multi Agent Engineering Workflow ("The Loom")**
- > Built and operate a guarded multi agent workflow harness driving Claude Code, Codex, and Antigravity across a multi repo estate, averaging **62% of engineering delivery and production releases at Inner Reality** over six months.
 - > Enforces production read only boundaries (IAM read only roles and local execution guards), structured task ledgers, and automated test verification before human gated production releases.
- PILLAR 3 · Live Systems Support, QA Foundations & Hardening**
- > Grounded in a practical QA and failure path foundation, having built the original Python and SeleniumBase regression suite plus the Playwright OTP and read only AWS alignment harness from scratch.
 - > Tracked down native Android WebXR and WebGL memory crashes (SIGSEGV context teardown leaks), worked alongside the CTO to resolve live OpenTofu split brain state drift across the AWS estate, implemented a transactional DynamoDB fix (TransactWriteItems) for a live TTL prize accounting bug before budget exhaustion, and shipped an automated pre launch security check suite.

SELECTED INDEPENDENT SYSTEMS Personal Projects & Open Source Tooling

GG Anvil (goodgameanvil.com · Jan 2026 to Present)

Discord native esports platform turning variable scoreboard screenshots into verified competition records via provider abstracted AWS Bedrock vision and OCR extraction, confidence thresholds, deterministic field validation, and human review holds.

Local Meeting to Work Pipeline (Open Source · Jun 2025 to Present)

Local Python pipeline running three concurrent models (Faster Whisper, pyannote diarisation, local Gemma via Ollama) with hallucination filtering (<0.5s latency, <5GB VRAM, zero cloud calls) emitting structured specs and ticket artifacts.

TECHNICAL ARSENAL & EDUCATION Full Stack · Distributed Data · Cloud IaC · Verification

- FRONTEND & WEBXR:** TypeScript, React, Vue 3, Vite, Pinia, Tailwind, Three.js, WebXR (8th Wall, MindAR, ARCore, WebGL lifecycle).

CLOUD, IAC & SECURITY: AWS (Multi Account Environments, S3, CloudFront, Cognito, IAM, SES, EventBridge), OpenTofu / Terraform, AWS CDK, CloudFormation, GitHub Actions OIDC, Automated Security Checks.
- BACKEND & DISTRIBUTED DATA:** Node.js, Python, AWS Lambda, API Gateway, DynamoDB (TransactWriteItems), Valkey / Redis (Lua EVAL), OpenSearch, Stripe & Messaging Webhooks.

AUTOMATION, QA & LOCAL AI: Playwright E2E, Python / SeleniumBase, Vitest, CI/CD pre flight and smoke checks, local audio and LLM pipelines (Faster Whisper, pyannote, Ollama).

EDUCATION & TERMS: Software Engineering Certificate (Stellenbosch University / HyperionDev, 2023 · 99%, Student of the Month) · CompTIA A+ & N+ (CTU, 2011) · Digital Photography Diploma (2012) · **NOTICE:** four weeks (or immediate contract onboarding).