

Christiaan Vogel

Software Engineer · Cloud & Full-Stack Developer

Software engineering graduate (BSc IT, twelve distinctions) and founder of Bezalel Software, building software end to end across the full stack, cloud and security, with day-to-day cloud engineering for a managed security service provider.

EXPERIENCE

Cloud Engineer / Software Developer

Mar 2025 – Present

F1 IT Solutions, Cape Town

- Design and build internal and client-facing software alongside the infrastructure role, including client marketing and lead-generation sites now live in production, and internal analytics tooling
- Manage Microsoft 365 tenants across multiple SME environments, covering user administration, licensing, and enterprise application configuration in Entra ID
- Deploy and monitor Sophos firewalls for client sites and the internal office, including VPN access, rule sets and connectivity validation
- Run endpoint security rollouts across Sophos Endpoint Protection, SentinelOne, Acronis and ESET, validating agent health and central reporting
- Resolve client incidents across desktop, network and application layers using the SuperOps RMM/PSA platform, previously N-able N-sight

Founder

2026 – Present

Bezalel Software

- Founded a custom software company on a 'code as craft' ethos, named for Bezalel in Exodus 31, the craftsman who is the first person in Scripture described as filled with the Spirit of God
- Build web applications, automation and integrations for businesses and individuals, and develop the multi-tenant Job Card SaaS platform below

Earlier roles

Aug 2024 – Mar 2025

Waiter, Cassia Restaurant · Delivery Driver, Butlers Pizza

CONTACT

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TECHNICAL SKILLS

Languages: C#, TypeScript, JavaScript, Python, Java, PHP, C, C++, Delphi

Backend: .NET 10, ASP.NET Core, Blazor Server, EF Core, .NET MAUI, Node.js, REST APIs

Frontend: React 19, Next.js 16, Tailwind CSS 4, HTML, CSS, Shopify Liquid

Databases: SQL, MySQL, SQLite, MongoDB, Neo4j; relational design, migrations, query optimisation

Cloud & DevOps: Cloudflare (Workers, Tunnel, Access), Docker and Docker Compose, Microsoft 365 administration, Entra ID enterprise app management, Linux VPS, Git and GitHub, automated deploys via Workers Builds

Testing: xUnit, Testcontainers, unit and acceptance suites, TypeScript strict typechecking, ESLint

Security: TLS and certificate hygiene, SPF/DKIM/DMARC, HTTP security headers, vulnerability management, Sophos firewalls and endpoint, SentinelOne, Acronis, ESET

Ops: SuperOps RMM/PSA, n8n, AI-assisted development workflows

SELECTED PROJECTS

Job Card SaaS — Multi-Tenant White-Label Platform (in development)

2026 – Present

C#, .NET 10, Blazor Server, EF Core, MySQL, Docker, xUnit

- Solo, ground-up rebuild of a university team project (.NET MAUI) as a white-label SaaS in which each tenant company will run a branded job-card system on its own domain, structured as a clean architecture across Domain, Application, Infrastructure and Web layers
- Implemented row-level tenant isolation using EF Core global query filters, with the active tenant resolved server-side from the request hostname only, never from anything the browser can set
- Built authentication end to end: local accounts with roles, guards and password reset, plus per-tenant SSO through Microsoft Entra ID and Google via OIDC, verified by a full round-trip integration test against a mock identity provider
- Developed the super-admin control plane used to manage tenants end to end, covering tenant CRUD, domain mapping and per-tenant SSO configuration
- Wrote unit and integration tests with xUnit and Testcontainers against real MySQL, kept every secret out of source control, and enforced Central Package Management with pinned versions

AMI Claims Operations Dashboard (in development)

2026

TypeScript, Node.js, SQLite, Docker Compose, Cloudflare Tunnel & Access

- Built a claims-operations analytics platform for an underwriting management firm giving per-handler visibility into activity windows, output, turnaround and reopen loops inside their claims system, which conventional desktop monitoring cannot see because that system runs over remote desktop
- Wrote the ingestion pipeline that parses monthly exports, derives events and dedupe-merges them into SQLite idempotently, so re-uploading an already-imported file is a no-op; handles 40,800 events across 13 months
- Designed a compact snapshot model, roughly 170 KB gzipped, shipping dimension tables and fixed-width integer fact arrays to the browser so every metric recomputes client-side and date filters redraw instantly instead of round-tripping
- Made the metrics layer isomorphic and pure, so the same functions that render the charts are the ones unit-tested on the server, with an acceptance suite asserting every published figure plus field-by-field parity against the verified prototype
- Engineered for POPIA from the start: server-side-only parsing, raw event text isolated and never joined into an API response, uploads never written to disk beyond their SHA-256, anonymous integer indices to the browser, and a strict CSP blocking all external origins
- Packaged for deployment on a Linux VPS via Docker Compose behind a Cloudflare Tunnel with Cloudflare Access and no inbound ports open, using a non-root multi-stage image with health checks, log rotation and WAL-safe backup scripts

Bezalel Software — Company Brand & Website

2026

Next.js 16, React 19, TypeScript, Cloudflare

- Designed the brand identity, including a keystone mark drawn from the architectural and scriptural cornerstone image, and built the company site as a static export deployed to Cloudflare, live at bezalelsoftware.co.za
- Built a live particle-engine hero in which binary digits assemble into the brand mark, a scroll-driven story section and a dual light and dark theme; scored 97–98 on Lighthouse performance and 100 on the remaining categories

PowerSol — Website Rebuild & Platform Migration

2026

Next.js 16, TypeScript, Cloudflare Workers, OpenNext

- Rebuilt the client site and migrated it off WordPress onto Cloudflare Workers, live on powersol.co.za since July 2026, with deployment automated through Workers Builds on push
- Handled the migration of 321 historical customer enquiries under POPIA data-minimisation constraints, and isolated legacy hosting archives containing live database credentials out of the build and backup paths

Savannah Tech — E-Commerce Build & B2B Site

2026

Shopify Liquid, Next.js 16, Cloudflare Workers, n8n

- Built and operated the Shopify storefront: custom Liquid theme sections, collection and brand grids, an EFT payment flow with an order approval gate, transactional email templates and Shopify Flow automation
- Ran the commercial data work behind it, including supplier catalogue reconciliation, margin and pricing analysis, duplicate cleanup and product title and SEO audits across the Dell and Microsoft ranges, and produced the business case for moving to an owned platform
- Built a separate Next.js B2B lead-generation site for institutional buyers, built for Cloudflare Workers and currently pre-launch

DigiDeeds & F1 IT Solutions — Client and Corporate Sites

2026

Next.js 16, Cloudflare Workers & D1, Tailwind

- Built the DigiDeeds site on Next.js with a Cloudflare D1 database and migration tooling, currently pre-launch, and maintain the live F1 IT Solutions corporate site including SEO work, a blog content pipeline and a scripted backup routine

SEAC Electricians — Freelance Client Website

HTML, CSS, JavaScript

- Designed and built a fully responsive website for a registered Cape Town electrical contractor, covering a services overview, company information and a working contact form; live at seac.co.za

MzansiMarket — C2C E-Commerce Platform (University Project)

2025

PHP, MySQL, JavaScript, HTML, CSS

- Built a full consumer-to-consumer marketplace for South African users with registration, product listings, wishlist and responsive layouts on a relational schema for users, products and transactions
- Implemented separate user and admin dashboards, secure authentication with server-side validation and hashed passwords, and deployed the application and database to shared hosting with Google Search Console verification; source on GitHub

EDUCATION

Eduvos — BSc Information Technology: Software Engineering (NQF 7)

2023 – 2025

- Graduated with twelve distinctions, including Procedural Programming 99%, Mobile Application Development and Big Data 90%, Enterprise Programming in C# 89%, Project: Mobile Application and Web Services 85%, Database Systems 83% and Web Development and eCommerce 83%

Relevant coursework: Enterprise Programming in C#, Data Structures and Algorithms in C#, Database Systems, Object Oriented Systems Analysis and Design, Software Process, Architecture Design and Quality Assurance, Software and Security Engineering, Web Development and eCommerce, Mobile Application and Web Services, Web Server Management, Operating Systems, Network Security, Usability Engineering, Human Computer Interaction, IT Project Management, Research Design and Methodology, 4IR Technologies, Business Management and Entrepreneurship

Nelson Mandela University — Diploma in IT: Software Development

2021 – 2022

- Nine distinctions across the two years, including Systems Software I: IT Essentials 99%, Development Software I 97%, Information Systems 1A 89%, Technical Programming I 85% and Internet Programming II 82%
- Completed two years of the diploma before transferring to Eduvos to read for the BSc, where five modules were formally recognised for credit toward the degree: Computer Skills, Advanced Information and Computer Skills, Computer Network and Security, Introduction to Programming, and Programming in C#

PROFESSIONAL CERTIFICATIONS

Approximately ninety vendor certifications completed across security, backup and managed-service platforms. Senior credentials listed below.

Sophos (50 certifications): Firewall Certified Architect v21.5 and v22.0; Firewall Certified Engineer v21.0, v21.5 and v22.0; Endpoint Certified Architect v6.0 and Central Endpoint Certified Architect v5.0; Endpoint Certified Engineer v6.0; Detection and Response Certified Engineer v5.5; Threat Investigation; Security Posture Assessment Certified Engineer; Cybersecurity Tabletop Exercises Certified Engineer; ZTNA; DNS Protection; Cloud Security; Central Email and Phish Threat; Central Wireless; Workspace Protection; MSP Technical Training

Acronis (37 certifications): Cyber Protect Tech Pro; Cloud Tech Pro in Backup, Disaster Recovery, EDR, XDR, MDR, Email Archiving and Ultimate 365; RMM and PSA Basic Training; Cyber Frame Technical Presales Pro; Cyber Platform Essentials; 2026 recertifications in Cyber Protect Cloud, M365 and RMM

Other: ESET Certified MSP Administrator Specialist v2; N-able N-central Core Product Certification

LEADERSHIP & COMMUNITY

Broadcast Sound Section Head — Testify Church (formerly CRC Cape Town)

2025 – Present

- Lead the broadcast sound team for weekly services, coordinating volunteers and managing live audio workflows and equipment

Homecell Leader — Testify Church (formerly CRC Cape Town) (2023 – Present)

CROSS Leader — Stellenberg High School (2018 – 2020) | SA Leader — Youth Camp (2018)

LANGUAGES

Afrikaans (native), English (fluent)