

Ruan Leenders

Full-Stack & AI Software Engineer

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PROFILE

Cum Laude Bachelor of Computing and full-stack engineer at DelegateIT since 2025. I build multi-tenant SaaS, AI assistants and mobile apps that businesses run on, from a Claude-powered AI sales assistant to dealer, union and payments platforms, and I take products from first interview to production.

SKILLS

Languages & frameworks	Python, FastAPI, Django, TypeScript, JavaScript, React, Next.js, Flutter/Dart, Node.js, C#/.NET (Blazor), HTML5, CSS3, Anthropic Claude API
Data & cloud	Supabase (PostgreSQL, Auth, Realtime, RLS, Edge Functions, Storage), PostgreSQL (pgvector, RLS), MySQL, Firebase, AWS (ECS, ECR, RDS, S3, Cognito, SQS, Secrets Manager, Amplify)
Tools & practice	Git, GitHub Actions CI/CD, Docker, Jira, Agile/Scrum, Figma, Webflow, REST API design, Twilio, LiveKit, PayFast, PDF generation, Excel/xlsx integration, testing and deployment
Specialities	Multi-tenant SaaS, multi-platform mobile apps, AI agents and RAG, performance optimisation and caching, role-based access control and security hardening

EXPERIENCE

DelegateIT

Bedfordview, Johannesburg

Full-Stack Software Engineer | March 2025 – Present

Take products from first interview to production across web, mobile and AI. Ran user interviews and UAT across 8 dealerships and multiple union branches, wrote enablement docs and runbooks and trained stakeholders; rated “Good to Excellent” on technical and soft skills. Standardised JWT authentication, session persistence and secure headers across services.

Neo · multi-tenant AI sales assistant (SaaS)

Lead solo developer

- Built a multi-tenant AI assistant that talks to leads over web chat, WhatsApp, SMS and voice, on Node.js/TypeScript, Postgres (21 migrations) and the Anthropic Claude API, with Cognito-authenticated REST APIs on AWS.
- Enforced tenant isolation with Postgres Row-Level Security behind application-level prompt isolation, and proved it with tests.
- Built a RAG knowledge base (PDF/DOCX upload, chunking, pgvector embeddings, semantic search, whole-site crawling) so the assistant answers only from each tenant's own business data.
- Implemented voice: Twilio ConversationRelay streaming calls and WhatsApp in-app calling through Meta and LiveKit, moving embedding inference off the main thread to protect live call audio.
- Integrated Google Calendar (availability, booking, rescheduling), HubSpot and Zoho CRM adapters and SendGrid confirmations with calendar invites; hardened lead matching so returning contacts are recognised across channels.
- Added per-tenant API keys, per-turn cost logging and a usage dashboard; shipped GitHub Actions CI/CD to ECS Fargate and the Next.js CRM dashboard.

TypeScript, Node.js, Postgres + pgvector, Claude API, Twilio, LiveKit, AWS ECS, Next.js

MAN Trucks & Bus · TCO and deal-management platform

Lead full-stack developer (~95%)

- Built the TCO calculation engine with real-time Repair & Maintenance (R&M) matrix lookups and residual-value modelling across 25+ vehicle models.
- Cut vehicle-model lookups by 75% with client-side caching and middleware, and deal-creation times by 60% with a cached deal-management API.
- Improved first paint by 40% by deferring heavy image loads, and replaced hundreds of sequential queries with parallel batch queries, taking load times from seconds to milliseconds.
- Replaced fragile browser localStorage with a database-driven design (JSONB reports, RLS policies, migrations) with one draft per user, debounced saves and race-condition prevention.
- Delivered editable, Excel-compatible R&M and Residual-Value matrices (import/export), dealership-scoped access, audit trails on pricing changes and an OBR margin guard (±15% minimum) that blocks excessive discounts.
- Built a multi-approver SPR pricing workflow with configurable price-range approvers and sequential approve/reject logic.

React, TypeScript, Supabase (PostgreSQL, RLS), ASP.NET Core

MAN Contract Management · contract lifecycle platform

Lead developer

- Built a contract lifecycle platform in which contracts move through category-matched approval rules, legal review and digital signing, with role-based approvers, internal signatory pre-fill, task queues and approval badges.
- Implemented internal and external e-signing: draw, type or upload signatures, token-validated signing links with MAN-branded emails, and signature reposition, edit and date-stamp tools.
- Secured it with email-based MFA, row-level security, audit logging and penetration-test remediation (RLS, RPC grants, rate limiting).
- Designed the data layer (56 SQL migrations, 18 Supabase Edge Functions), built admin tools for users, roles, SMTP, workflows and reports, and deployed to the client's Windows/IIS servers with self-hosted Supabase and scripted releases.

React, TypeScript, Vite, Tailwind, Supabase (PostgreSQL, RLS, Edge Functions), pdf-lib, IIS

SalesFront · multi-tenant SaaS ERP for Budget Sheet Metal Engineering

Primary developer (~70%)

- Architected multi-tenancy on Django with django-tenants: fully isolated client data plus Row-Level Security policies across all tables.
- Built sales-opportunity management with custom status workflows and geographic (GIS) intelligence for location-based sales.
- Developed Manufacturing Resource Planning: supplier management with payment tracking, stock and materials reporting (consignment grouping, raw-material monitoring, reorder-level alerts) and sales-order completion checks.
- Built "Floor", an installable shop-floor PWA for tablets with passcode login, task queue and timers, material capture with deferred stock deduction, offline tolerance and an idle lock.
- Delivered REST APIs with Django REST Framework, Celery background tasks and JWT authentication.

Django, django-tenants, DRF, Celery, PostgreSQL RLS, PWA

PSA · union governance app

Lead mobile developer (~85%)

- Led Flutter development of a member-engagement app for iOS and Android on a Django REST backend; published to both app stores and deployed the backend on AWS.
- Built nomination workflows with document validation and multipart upload (CV, meeting minutes, attendance list) and real-time Firebase Cloud Messaging notifications with deep-link routing.
- Enforced voting rules (eligibility of 4+ secondments, rejected nominations blocked) with an idempotent voting guard, keeping votes secure and auditable.
- Cut nomination-review times by 40% with a batch API and 5-minute caching; added role- and branch-scoped access, throttling and secure session persistence.
- Rolled out a mobile secondment flow across 4 branches with progress tracking, and trained union members on the app.

Flutter, Dart, Django REST, Firebase Cloud Messaging, AWS

Driveway · neighbourhood security app

Lead developer

- Built a Flutter app (40+ screens) for gated-community security: households, vehicles, licence-plate history, alerts and neighbourhood voting.
- Wrote 30+ Supabase Edge Functions (invites, address validation, vehicle history, analytics, AI risk scoring, push and email) and row-level security policies for alerts, votes and whitelists.
- Implemented on-device face detection with auto-capture and quality checks feeding admin face and document approval queues.
- Added push notifications (FCM/APNs), safety broadcasts, a neighbourhood KPI dashboard, geofenced boundaries with Google Maps and vehicle analytics.

Flutter, Supabase (Postgres, RLS, Edge Functions), FastAPI, Firebase/APNs, Google Maps, ML Kit

LegalPass · legal chat portal (legalpass.co.za)

Sole developer

- Built the whole subscription portal solo on Supabase (18 Edge Functions, 22 SQL migrations) with member, staff and admin portals.
- Integrated PayFast checkout, ITN handling and recurring monthly and annual subscriptions, including cancel and resume.
- Built per-minute billing from live-chat webhooks with double-charge guards, de-duplicated transcripts and speaker-separated transcripts by email or download.
- Added email-OTP signup, custom-SMTP password reset, TOTP two-factor for staff, RLS and CORS hardening; built an admin console for members, partner codes, credits and pricing, plus PDF invoices.

JavaScript, Supabase (Postgres, Auth, Edge Functions), PayFast, AWS Amplify

WithCrypto · crypto marketplace website (withcrypto.com)

Sole developer

- Rebuilt the multi-page marketing site (home, services, about, news, contact, regulatory, legal) mobile-first with Vite and Tailwind v4, replacing a WordPress theme.
- Implemented the new brand as a design system (bone/onyx/gold tokens, dark mode) with 3D glass cards and scroll-reveal animation with fallbacks.
- Mapped legacy WordPress URLs to 301 redirects to preserve SEO through the DNS cutover; iterated on client feedback and mobile and contrast fixes.

HTML, CSS, JavaScript, Vite, Tailwind v4

Goodwill · dealership approvals platform

Contributor (security hardening)

- Remediated penetration-test findings in a Blazor Server app: account lockout after 5 failed logins (15 minutes) and IP-based rate limits on login and the SignalR hub.
- Required authorisation on the Blazor hub, redirected unauthenticated requests to sign-in through an allow-list, added anti-clickjacking headers and tighter circuit limits; fixed a .NET SDK build break.

C#, .NET 8, Blazor Server, ASP.NET Identity

Frost Forward Digital Studio

Cape Town

Subcontractor – Web Developer & Designer | March 2024 – May 2025

- Designed and built custom, responsive websites for studio clients using HTML5, CSS3, JavaScript (ES6+), TypeScript and React.
- Shipped dynamic, high-performance sites with Framer, Figma and Webflow, integrating RESTful APIs and third-party services.
- Applied UI/UX best practice and brand systems to deliver accessible, visually engaging interfaces that stay consistent across screen sizes.
- Optimised performance through lazy loading, code-splitting and SEO; managed projects from prototype to production using Git, Vite and Next.js.

EDUCATION

Belgium Campus iTversity

Pretoria, South Africa

Bachelor of Computing (NQF Level 8; 506 Credits) – **Cum Laude** – conferred April 2026 – certificate attached

- Coursework: Software Engineering, Backend/Frontend & Web Programming, Database Development, AI & Machine Learning, Network Development, Software Design, Project Management, UX Design, Linear Programming, Innovation & Leadership.

Languages: English, Afrikaans | **Interests:** Tennis, scuba diving, designing SaaS products

The Senate of Belgium Campus iTiversity hereby declares that at a congregation of the Campus
the qualification

Bachelor of Computing

with all the associated rights and privileges
was conferred on

Ruan Leenders
0205165151080

Level of achievement:

Cum Laude

This certificate was issued by the Belgium Campus iTiversity in terms of
Section 23 of the Higher Education Act

On behalf of the Senate



Head of Institution



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On behalf of the Faculty of
Information Technology



Dean

On behalf of the Institution



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