

GUSTAV LOTZ

FULL STACK SOFTWARE DEVELOPER · TECH LEAD

6+ years · React 19 · Angular · TypeScript · Node.js · Ionic · Micro-frontends · Fintech · SaaS · Mobile



PERSONAL PROFILE

Senior Full-Stack Developer and emerging engineering leader with 6+ years delivering production-grade SaaS platforms, micro-frontend architectures, and cross-platform mobile applications for European and South African markets. Experienced in driving end-to-end product ownership, from shaping architecture to shipping features that directly impact revenue, retention, and operational scale. Comfortable leading technical direction across distributed remote teams, with a track record of modernising legacy systems, integrating payments infrastructure, and building platforms that support multi-tenant, multi-locale deployments. Brings a pragmatic, business-aware engineering mindset: choosing the right technology over the trendiest, and consistently translating complex requirements into maintainable systems that deliver measurable value.

CORE SKILLS

- React 19, TypeScript, Redux Toolkit
- Node.js, Express.js, REST APIs
- React Hook Form, TanStack Table, D3.js
- Firebase, Supabase, PostgreSQL
- Docker, Kubernetes, Nginx, Jenkins
- Google Maps API, Chart.js, Jessibuca
- Vitest, Karma, Jasmine, RTL
- HTML5, SCSS/CSS Modules, Tailwind
- Angular 19, Ionic 8, Capacitor
- Nx Monorepo, Micro-frontends, Vite
- NgRx, RxJS, i18next, SortableJS
- MongoDB, MySQL, CouchDB
- JWT, OAuth2, RBAC
- FLV / HLS / H5F Streaming
- Git, GitHub, Husky, CI/CD
- Python, PowerShell, C++, QTCreator

PROFESSIONAL CAREER

Software Developer (Full Stack) / CFOHIRE, United Kingdom, Remote May 2025 – Present

- Delivered a fully operational B2B marketplace platform from the ground up, connecting companies with CFOs and finance specialists across job posting, proposals, contracts, invoicing, and payments in a single workspace, reducing fragmented tooling for finance hiring teams.
- Served multiple distinct user types (clients, CFOs, finance associates) with tailored experiences across shared product flows, enabling the platform to support a broad range of engagement models without duplicating core logic.
- Eliminated manual onboarding friction by integrating AI-powered CV and company website parsing to prefill profile data, cutting the time-to-active for new users.
- Delivered full payment lifecycle automation, automated invoice generation, auto-pay scheduling, and electronic signing, removing manual billing overhead and reducing late-payment risk for platform operators.
- Established a scalable monorepo architecture with CI/CD pipelines, shared libraries, and staging/production environments, reducing deployment risk and accelerating feature iteration from day one.
- Engineered secure real-time messaging so proposals and conversations stay synchronised across users, increasing engagement reliability and reducing coordination overhead.

CONTACT

Phone

+27 76 300 3968

Email

Lotzgustav@gmail.com

Location

Robertson, Western Cape

LinkedIn

linkedin.com/in/gustav-lotz

GitHub

github.com/gustavlotz

LANGUAGES

English - Fluent

Afrikaans - Native

German - A1

TECH STACK

Frontend

- React 19
- TypeScript 5.9
- Redux Toolkit
- Vite 7
- Nx Monorepo
- React Router v6
- React Hook Form
- TanStack Table
- D3.js
- i18next
- SortableJS
- Quill
- Axios
- SCSS / CSS Modules

Mobile

- Angular 19
- Ionic 8
- Capacitor
- NgRx
- RxJS
- Google Maps API
- Chart.js
- Jessibuca

Backend

- Node.js
- Express.js
- MySQL
- MongoDB
- Firebase
- Supabase
- PostgreSQL
- FreeMarker

Next.js (SSR) · React · TypeScript · Node.js · Express · PostgreSQL (Supabase) · Realtime · Stripe Connect · Monorepo · CI/CD · Docker · Tailwind · Radix UI · SendGrid · AI (Gemini) · PDFs · E-signatures

Software Developer (FE / Full Stack) / KlantenVertellen, Netherlands, Remote

June 2024 – March 2026

- Enabled rapid onboarding of new tenants and industry verticals by delivering a configurable, embeddable review widget platform with real-time preview, theme customisation, and embed code generation that scaled to support over 100 industry-specific widget variants across multiple tenants.
- Accelerated the company's platform modernisation by leading the migration of 144+ server-side FreeMarker templates into a React micro-frontend architecture, enabling independent deployment of review pages and widgets and eliminating a key bottleneck in the release cycle.
- Unified the experience across four distinct user portals (Admin, Business Owner, Group Manager, Platform Admin) within an Nx monorepo, ensuring consistent UX across all breakpoints while keeping shared logic centralised and maintainable.
- Improved data management productivity across all portals by delivering an advanced drag-and-drop SortableTable component with multiple edit modes, optimistic updates, and async polling, becoming the core interface for operators managing large datasets.
- Expanded the platform's reach to international markets by implementing a comprehensive i18n system with dynamic label loading, context-based injection, and cookie-based language persistence, reducing unnecessary API calls and enabling smooth multi-locale operations.
- Improved performance and user-perceived load times across all portals by leveraging React 19 concurrent features (startTransition, useOptimistic) combined with Vite code-splitting and vendor chunking strategies.
- Resolved a complex multi-tenant navigation challenge by engineering a role-based route transition system that handles seamless context switching with session tracking, eliminating redirect loops and preserving browser navigation history.
- Contributed to infrastructure reliability and security by participating in Docker multi-stage builds, Kubernetes deployments, Jenkins CI/CD, Nx Cloud distributed caching, and Trivy container scanning.

React 19 · TypeScript 5.9 · Redux Toolkit · Vite 7 · Nx Monorepo · React Router v6 · React Hook Form + Yup · TanStack Table · D3.js · Quill · SortableJS · i18next · Axios · SCSS · Vitest · RTL · Docker · Nginx · Kubernetes · Jenkins · Nx Cloud · Nexus · Trivy · Husky · JWT · OAuth2 · MySQL · FreeMarker

Software Developer (Full Stack / Mobile) / TelematicsAI, Freelance via KRE8IT Programming, Somerset West, SA

December 2020 – Present

Fleet management and telematics platform providing real-time vehicle tracking, live video surveillance, emergency response, and driver analytics for commercial fleet operators.

- Improved fleet operator situational awareness and reduced video service downtime by building a multi-protocol live streaming system (FLV, HLS, H5F) with intelligent protocol detection, automatic fallback, and platform-specific reconnection handling.

CONTINUED

Gustav Lotz

Full Stack Developer

+27 76 300 3968

Lotzgustav@gmail.com

- Enhanced operational reliability during outages by engineering a dual data-source architecture that dynamically switches between Firebase Realtime Database and REST API with transparent normalisation and dual-server failover, ensuring continuity even under degraded network conditions.
- Strengthened platform security by implementing AES-256 encrypted credential autofill with device fingerprinting, including seamless migration from legacy unencrypted storage.
- Increased driver accountability and enabled data-driven fleet decisions by delivering analytics dashboards with risk scoring, behaviour metrics, and visual reporting.
- Reduced emergency response times by building a GPS-integrated panic and theft alert system with real-time geolocation, location caching, and dual-server dispatch to ensure alert delivery even during connectivity failures.
- Shipped a production cross-platform mobile app (Android, iOS, PWA) via Capacitor with lazy-loaded modules and comprehensive test coverage, enabling the platform to reach drivers across all major mobile environments.

Angular 19 · Ionic 8 · Capacitor · NgRx · RxJS · TypeScript · Google Maps API · Chart.js · Firebase Realtime DB · crypto-js (AES-256) · Node.js · Express · MongoDB · MySQL · Nx Monorepo · Karma/Jasmine · Video Streaming (FLV/HLS/H5F)

Junior Software Developer (Full Stack) / LemonKode, Somerset West, SA

June 2019 – July 2020

- Improved query performance and data model flexibility by leading the migration of an existing database from Apache CouchDB to MongoDB with Mongoose.
- Enabled scalable multi-tenant operations by architecting secure RESTful APIs on Node.js/Express, leveraging MEAN stack multi-tier architecture for reliable upscaling and downscaling.
- Unblocked the Accounting department by designing and delivering financial PDF report generation, replacing a manual process with automated, decision-ready output.
- Resolved a critical frontend scalability issue on a large warehouse application (Zimbabwe), optimising rendering to handle 400,000+ products without performance degradation.
- Reduced manual payroll workflow overhead by building Python and PowerShell microservices to automate connections between Payslip and internal printing systems.

MEAN Stack · Angular.js · Node.js · Express.js · MongoDB · Mongoose · CouchDB · Python · PowerShell

IT Support Technician / Trulogic Financial Services, Cape Town, SA

August 2018 – June 2019

- Protected sensitive financial data and ensured regulatory compliance by managing infrastructure security across firewalls, IDS, antivirus, encryption, and access control policies.
- Improved operational continuity by developing a Disaster Recovery and Business Continuity plan, including cold storage and daily backup procedures.

EDUCATION

CONTINUED

Gustav Lotz
Full Stack Developer
+27 76 300 3968
Lotzgustav@gmail.com

BSc in Mathematics and Computer Science / University of South Africa (UNISA), Pretoria

June 2020 – 2024

Programming, Data Structures, Operating Systems, Artificial Intelligence, Linear Algebra, Calculus, Real Analysis.

Cape Town School of Engineering, Somerset West, Western Cape

February 2016 – June 2017

Programming, Cisco Networking, Electronics, Mechanical, PLCs, SOLIDWORKS 3D CAD.

REFERENCE

Rory, Director, KRE8IT Programming Ltd · +27 62 133 6754

CONTINUED

Gustav Lotz

Full Stack Developer

+27 76 300 3968

Lotzgustav@gmail.com