

Allen Firth

Senior Frontend / Full-Stack Engineer | React, Angular, TypeScript, NodeJS

Durban, South Africa (remote; UTC+2, full UK and EU working-hours overlap) | +27 60 840 7793 | allen@codestream.co.za
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PROFILE

Senior frontend and full-stack engineer with 25+ years (since 2001) of building complex, data-heavy applications for trading, capital markets, law, insurance, sport and retail clients, including LSEG, Uniper, Anglo American, Clifford Chance and corfinancial. I specialise in React, Angular and TypeScript: rewriting legacy desktop and server-rendered UIs as modern web applications, real-time interfaces (SignalR, WebSockets), state management (NgRx, NGXS, Zustand) and reusable components, working closely with business users and subject-matter experts. Hands-on across the stack with Node.js, C#/.NET and Azure. Former CTO and SaaS co-founder. After six and a half years contracting in London, I now deliver remotely through my consultancy, CodeStream. AI-first since June 2025, with every merge under my review.

Engagement model: independent contractor, B2B through my consultancy CodeStream; fully remote.

KEY SKILLS

Frontend: TypeScript, React, Angular, Web Components, AG Grid, Tailwind CSS, Zod; legacy AngularJS, ASP.NET MVC and jQuery
State and real-time UI: NgRx, NGXS, Zustand, SignalR, WebSockets, live trade and location streaming, timeseries visualisation
Mobile: React Native (iOS and Android), Xamarin, mobile-first React web apps
Full-stack: Node.js, GraphQL, C#, .NET / ASP.NET Core, SQL Server, PostgreSQL, Azure Cosmos DB, MongoDB, Azure (Functions, Event Hubs, AD B2C), Power BI
Practice: legacy UI modernisation, reusable components, role-based access control, requirements with business users and SMEs, Agile / Scrum / SAFe, TDD, CI/CD (Azure DevOps, GitHub Actions)
AI-augmented delivery: AI coding agents and agentic workflows, AI-assisted TDD and refactoring, human-in-the-loop review

SELECTED ACHIEVEMENTS

- corfinancial:** leading a legacy C# Windows UI rewrite in React and TypeScript; about 90% of screens delivered by a team of two.
- Uniper:** led the full-stack rewrite of a failed PPA valuation application in Angular; critical paths 10 times faster.
- LSEG:** rebuilt TM3 for LSEG Workspace with Web Components and live WebSocket trade streaming.
- Clifford Chance:** built the Angular proof of concept that started PartnerHub's migration off ASP.NET MVC.
- SMEasy:** technical lead overseeing an outsourced Angular front-end rewrite through go-live in January 2024.

CONTRACT AND CAREER HISTORY

Lead Front-End Developer | corfinancial (Salerio)

Via Digiterre | London, UK (remote) | Capital markets Feb 2026 – Present

- Leading the front-end rewrite of Salerio, a trade management and exception-handling platform, from a legacy C# Windows UI to a web-hosted React and TypeScript application.
- One of two developers; about 90% of screens and functionality delivered so far, using Zustand for state and Zod for validation, AI-assisted with full code review.

STACK [React](#) · [TypeScript](#) · [Zustand](#) · [Zod](#)

Business Analyst and Software Architect | Stuart Peters (PLM replacement)

Via CodeStream | London, UK and Hong Kong | Fashion design and sourcing Apr 2025 – Dec 2025

- Took over support and maintenance of the React and MongoDB application that manages supplier workflows.
- Interviewed stakeholders in London and Hong Kong and wrote a 130-page PLM report; the business adopted my recommendation, Lectra Kubix Link.

STACK [React](#) · [MongoDB](#)

Full-Stack Consultant | corfinancial (bitarisk REG9 compliance module)

Via Digiterre | Remote | Wealth and portfolio management Jul 2024 – Mar 2025

- Led UI delivery of the REG9 compliance module for bitarisk, a private client portfolio management system, in a fully remote team of five.
- Extended the existing Angular UI with new components integrated with backend services and APIs.

STACK [Angular](#) · [TypeScript](#)

Full-Stack Consultant | London Stock Exchange Group (TM3)

Via Digiterre | Remote | Financial markets, fixed income Jun 2023 – Jul 2024

- Redeveloped TM3 (Municipal Market Monitor), a US municipal bond product, for LSEG Workspace using Web Components and TypeScript, streaming live trade data to clients over WebSockets.
- Integrated multiple data sources via a Node.js and GraphQL service layer; multiple production releases let LSEG move clients off the legacy product.

STACK [Web Components](#) · [TypeScript](#) · [WebSockets](#) · [Node.js](#) · [GraphQL](#)

Lead Full-Stack Consultant | Uniper (PPA Model Valuation Desktop)

Via Digiterre | London, UK (remote) | Energy trading

Jul 2022 – May 2023

- Led a full-stack team rewriting the PPA valuation workspace after the previous version failed to meet business requirements: an Angular and TypeScript front end for model inputs and timeseries visualisation, with SignalR live updates.
- Rewrote the critical paths, making key functional areas 10 times faster.

STACK [Angular](#) · [NgRx](#) · [TypeScript](#) · [SignalR](#) · [C#](#) · [ASP.NET Core](#) · [Azure Cosmos DB](#)

Full-Stack Developer | Clifford Chance (PartnerHub)

Via CodeStream | London, UK (remote) | Legal, global partner remuneration

Jan 2022 – Jul 2022

- Built the Angular proof of concept that started PartnerHub's migration from ASP.NET MVC to Angular with an ASP.NET Core API.
- Built Angular screens for interest reconciliation, manual adjustments, unit pre-allocation and capital loans, plus system-admin scaffolding, RBAC and reusable components.
- Worked with subject-matter experts in a SAFe team; implemented interest calculations across multiple tax regimes.

STACK [Angular](#) · [TypeScript](#) · [ASP.NET MVC](#) · [C#](#) · [ASP.NET Core](#) · [SQL Server](#)

Full-Stack Consultant | Anglo American (Live Exposure Reporting)

Via Digiterre | London, UK (remote) | Commodities trading

Jul 2021 – Dec 2021

- Built an intraday exposure UI for traders with multi-dimensional filtering, pivoting and drill-down from book and strategy to trade, with real-time SignalR updates and pause-and-snapshot investigation.

STACK [Angular](#) · [AG Grid](#) · [TypeScript](#) · [SignalR](#) · [C#](#) · [ASP.NET Core](#)

Co-founder, Architect and Lead Developer | DigitalTwin

Multi-tenant IoT SaaS for live asset tracking

2020 – 2022

- Led development of Angular web consoles (NGXS, Tailwind) showing live asset locations via SignalR, live inventory and alerts for missing assets, plus a Xamarin mobile app for inventory scans; sign-in with Azure AD B2C.
- Architected the ASP.NET Core CQRS backend; a partner acquired the platform in 2022 and I led the full technical handover.

STACK [Angular](#) · [NGXS](#) · [Tailwind](#) · [Xamarin](#) · [SignalR](#) · [ASP.NET Core](#) · [SQL Server](#) · [Azure](#)

Software Developer | Chelsea FC (live player telemetry)

Direct engagement via CodeStream | London, UK (remote) | Sports performance analytics

Aug 2018 – Aug 2020

- Built an Azure Function turning live 10 Hz GPS data from Event Hubs into per-player, per-second metrics for the analytics API and live Power BI dashboards; reliable tracking of 20+ players.

STACK [C#](#) · [Azure Functions](#) · [Event Hubs](#) · [SQL Server](#) · [Power BI](#)

Consultant Developer | The SPAR Group

Via CodeStream | Durban, South Africa | Retail

2017 – 2021

- Built Angular UIs for store and vendor master-data systems, integrating with .NET and SAP APIs; coordinated sprint work across teams. Also built reporting APIs for an Azure data lake.

STACK [Angular](#) · [.NET](#) · [SAP APIs](#) · [ASP.NET Web API](#) · [Azure SQL](#)

CTO, then Technology Partner | SMEasy

Durban, South Africa | Online accounting SaaS for SMEs

2015 – 2024

- Technical lead (2023) for an outsourced Angular front-end rewrite: scope review, sprint reviews, environments and releases through go-live in January 2024.
- CTO (2015–2017), then technology partner: technical direction, the Absa white-label edition, partner API and Azure operations.

Other CodeStream Engagements and Products

2017 – Present

- **Own products (2024–2026):** ContractorPro and Cosplay Platform (React Native for iOS and Android); CarwashPro (React).
- **CashRewards** (Australia): Angular coupon management site. **PROFiltr:** AngularJS marketplace. **Veridot:** backend APIs.

Earlier Contracts, London

2008 – 2015

- **Via Digiterre (2011–2015):** team lead for E.ON's transfer pricing tool (WPF) across London, Düsseldorf and India; master data and initial-margin tools for EDF Trading; introduced CI/CD, automated testing and agile practices at M&G Investments.
- **Freshfields (2008–09):** contact, event and budgeting tools with ASP.NET MVC and jQuery asynchronous UI updates. **Brit Insurance (2009–10):** online policy management system. **MAN Investments (2010–11):** middle-office systems integration.

EDUCATION AND CERTIFICATIONS

Bachelor of Commerce, specialising in Informatics | University of South Africa (UNISA), 2004

MCSD, Microsoft Certified Solution Developer | Microsoft, 2001