## Skills

C# | Asp.Net | SignalR

Angular | React | TypeScript | NodeJS

ComosDB | Sql Server

Azure Platform Technologies,

Azure DevOps

Git | GitHub

## Qualifications

BCom (Informatics) 2004
University of South Africa

Over 22 years of industry experience developing and architecting software solutions.

## Info / Contact

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Please see my personal and company websites for more details on my skills and experience.

www.codestream.co.za

www.allenfirth.info

Online Profiles

LinkedIn

GitHub

# Allen Firth

Full-Stack Developer | Architect

## Profile

As a full stack developer, I specialize in working with **Angular / React / NodeJS**, **C#, Asp.NET Core**, **SQL Server** / **CosmosDB** and **Azure Platform Technologies**.

With over two decades of experience in the tech industry, I have spearheaded development teams and engineered software solutions for both sprawling corporations and nimble startups. My specialty is in architecting and constructing intricate distributed systems, adhering to the highest industry standards.

I am a staunch advocate for integrating automated testing throughout the development lifecycle, complemented by a robust approach to continuous integration and deployment, tailored to project needs.

Throughout my extensive career, I have engaged with a wide array of industries and sectors, participating in every phase of the software development lifecycle. This includes project inception and analysis, design, implementation, deployment, as well as the continuous maintenance and support of the end product.

## Experience

**Jun 2023 - Current – London Stock Exchange Group (London, Fully Remote)**

As a consultant, I was part of a team tasked with redeveloping the **Municipal Market Monitor** application (TM3) for the **London Stock Exchange Group** (LSEG). **TM3** is a crucial fixed income tool that offers comprehensive insights into U.S. Municipal bonds. The redevelopment aimed to integrate **TM3** within **LSEG's** advanced Workspace platform, connecting it with various disparate data sources and enabling the streaming of live trade data to clients via web socket connections.

This project demanded a high level of customer engagement and precise communication to align the business requirements with **LSEG's** technical estate. Together with my team, we have successfully launched multiple production releases of the **TM3** application. This has allowed **LSEG** to begin transitioning their clients from the old system to the newly enhanced **TM3** with improved user experience and functionality.

[Web Components, TypeScript, Nodejs, Web Sockets, GraphQL]

**Jul 2022 – May 2023 – Uniper Energy (Germany, Fully Remote)**

As the team lead and full-stack developer, I spearheaded a project focused on designing a robust system to manage the inputs required for operating **Power Price Agreement** valuation models related to renewable energies. This system also featured capabilities for visualizing and analyzing the time-series outputs produced by these models.

Tasked with rewriting the previous version of the application—which fell short of meeting business needs—our team successfully overhauled the system. We achieved significant enhancements in the performance of its critical functional areas, improving efficiency by an order of magnitude. [Angular, Ngrx, SignalR, C#, Asp.NET Core, Azure CosmosDb, Azure platform technologies]

**Jan 2022 - Jul 2022 – Clifford Chance (London, Fully remote)**

I was tasked with providing technical and architectural expertise to an established team of developers. Our main goal was to modernize the technology of an existing **Partner system**, which is essential for managing global partner remuneration across various tax regions. Collaboratively, we not only enhanced the application's performance but also integrated industry best practices to elevate the code quality and overall design. [Angular, C#, Azure Sql Server]

**Jul 2021 - Dec 2021 – Anglo American (London, Fully Remote)**

As a full-stack developer, I played a pivotal role in developing an Exposure Reporting Tool. This tool leveraged SignalR to dynamically display live intraday trades and exposure shifts. The project's complexity stemmed from managing extensive datasets encompassing multiple reporting dimensions and continuously updating the data in response to daily trading activities. [Angular, AG Grid, SignalR, C#, Asp.NET Core, Azure Synapse, Azure platform technologies]

**2017 – 2021 Various contracting / consulting roles:**

I built the Vendor master data management system for **The SPAR Group** using Angular and C# APIs. I was instrumental in development of SPAR's central DataLake reporting database (using **SQL Server**) which I later migrated to the **Azure Cloud** using **Azure Data Factory** and **Azure Synapse**.

I've worked **remotely** on a live data processing system for **Chelsea Football Club** in the **UK**, receiving, analysing, and processing player GPS, acceleration and speed data being fed live into an **Azure** processing pipeline using **Azure EventHub**, **Azure Functions** and **Azure Sql Server**.

I've worked **remotely** for **CashRewards** in **Australia** building their new Customer Coupon Management site using **Angular**.

I've worked **remotely** for **PROFiltr** in the **UK** bringing their online solution for small bookkeeping companies to completion using **AngularJS, NodeJS and MongoDB**

**2014 – 2017, SMEasy (CTO, Architect and Developer)**

I was CTO for a small FinTech start-up operating out of Durban, South Africa. SMEasy provided an easy-to-use online accounting package for small to medium enterprises.

I was instrumental in redirecting the architecture and technology choices of the product as well as leading and directing a near re-write of the system using modern frameworks and introducing cutting edge development practises to the development team. SMEasy was developed using **Angular**, **C#**, **Asp.Net** and **Azure SQL Server** and **Azure DevOps**.

**2008 – 2014, London, Various contracts**

I spent six and a half years plying my trade as a sought-after software developer in **London**. I gained experience working with top talent in large corporate environments such as Man Investments, BritInsurance and Freshfields Bruckhaus Deringer. I spent the last three years in London working for Digiterre on various projects for the likes of EDF and M&G Asset Management.

A more detailed account of my working history can be obtained on request or viewed on allenfirth.info