Allen Firth

Full-Stack Developer | Architect

Skills

C# Asp.Net SignalR

Angular React TypeScript NodeJS

ComosDB Sql Server PostgreSQL

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

Profile

As a full stack developer, I specialize in working with **Angular / React / NodeJS**, **C#, Asp.NET Core**, **relational** and **NoSQL databases** as well as **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 speciality 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 product.

Experience

Jul 2022 – Mar 2025 – Digiterre Consultant Developer (London, Fully Remote)

Uniper Energy
As a Digiterre consultant, I served as Team Lead and Full-Stack Developer for a project centered on designing an efficient system to manage inputs for **Power Price Agreement** valuation models in the **renewable energy sector**. I spearheaded the development of a robust solution that incorporated advanced visualization and analysis tools for time-series data generated by these models, delivering a high-impact system tailored to complex operational needs.

Entrusted with revamping an underperforming legacy application, I led a team to successfully redesign and optimize the system. Our efforts resulted in substantial performance improvements across key functional areas, boosting operational efficiency by a **factor of ten**.

[Angular, Ngrx, SignalR, C#, Asp.NET Core, Azure CosmosDb, Azure platform technologies]

CorFinancial – private client portfolio management
As a Digiterre consultant, I helped develop the **REG9** compliance module for Corfinancial's BitaRisk portfolio management system.

I led the enhancement of an **Angular-based UI**, creating new components and integrating them with backend services and APIs, delivering a robust solution that boosted functionality and user experience.

Leading a **remote team**, I ensured innovative solutions aligned with project goals, showcasing my ability to coordinate and succeed in a virtual environment.

[Angular, Typescript]

London Stock Exchange Group

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 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]

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 – Digiterre Consultant at 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