



# LEWIS CLARKE

## PROFILE

I'm Lewis, a highly motivated Full stack Engineer with 5 years of experience in React, NodeJS, and Typescript. My passion is crafting clean, well-structured, easy-to maintain, and scalable code. I excel at working in a fast paced team and strongly grasp both front and backend technologies

### Skills

- Typescript
- JavaScript
- Redux
- ReactJS
- Node.js
- Backend
- React Query
- Git
- postgresql

EMPLOYMENT  
HISTORY

## Software Consultant at Tretton37(1337)

December 2022 – Present

At Tretton37, I have had the amazing opportunity to work with many wonderful clients with even more wonderful products. This means I have had the chance to work with and learn many many technologies, but above all the most valuable thing my time at tretton has earned me is a massive boost to my soft skills, as a consultant your job is not to simply build software, though this is a large part of it. For me, being a consultant also means imparting your knowledge and experience onto the teams you join, help them to think through technical decisions and guide them into a smooth maintenance period once you depart their team. Some of the soft skills I improved the most during my time include -

- Writing detailed and easy to understand technical handover documents
- Writing maintenance documentation
- Writing constructive and useful code review feedback, as well as running coaching sessions with more junior team members.
- Walking Teams through technical decisions, assessing tech stack choices and minimising technical debt
- Goal orientated development.

## Software Engineer at Carbon Zero AB

July 2024 – July 2024

A one month, short sprint project to build a dashboard that consumes large data sets from various microservices. The dashboard was built from scratch inside of three weeks, using Vuejs, typescript and shadcn-ui for vue. The project included

- Auth with OAuth
- Charts
- large tabular data
- Smart Pagination
- Complex multi layered filtering system

This was a one man project, that had no fleshed out requirements and a very short time scale, so this project required excellent use of my soft skills, as well as my technical skills.

As part of this project, I also extended the capabilities of their GraphQL based Api gateway to automatically generate Type safe queries using GenQL, this way they no longer needed to spend large amounts of time manually creating these.

## Software Engineer at Carbon Zero AB

August 2023 – January 2024

My role at CarbonZero was two fold, firstly I was tasked with taking their monolithic proof of concept, and re-imagining it as a fully featured, tested and pipelined microservice architecture, as part of this I:

1. Helped them to orchestrate and build their IAS (infrastructure as code) system, using CDK.
2. Defined scope for services, and built a "service scaffold" so we had a general way to define what a service was.
3. Defined ,built and implemented a full test suite, using JEST and puppeteer.
- 4.Ensured quality by introducing the team to code reviews,gitflow and automated tests as part of deploy pipelines.

I had many more tasks in this area, but those were the top four.

As for the second part of the fold, I was tasked with being an active part of the build across the stack, I was involved in designing, building and integrating microservices using node/typescript and prisma as an ORM, with postgresql as a db technology, some achievements include:

- 1.Developing scalable microservices
- 2.Defining and implementing database schemas in prisma
- 3.Writing unit tests
- 4.Architecting and Implementing service-service comms.
5. Implementing CI/CD using github action scripts to deploy docker images to amazon ECR

## Full Stack Software Engineer at VisAlfa AB

April 2023 – April 2023

As a consultant for VisAlfa, I utilized my expertise in TypeScript, JavaScript, and React on a project that involved extending a filter utilizing predicate functions. My focus was to ensure that the filters were applied accurately to the component that rendered the data using React context. In addition to my technical responsibilities, I maintained regular communication with the client, to understand their requirements, objectives, and goals.

As a consultant with a forward-thinking approach, I identified an opportunity to reduce technical debt by suggesting an efficient approach to change the client's back end. This initiative was well-received, and the client expressed their satisfaction with my comprehensive understanding of the project.

Throughout the project, I demonstrated my ability to collaborate with clients and iterate quickly to deliver high-quality results within the allocated time frame. To ensure the project's success, I deployed the final product to Microsoft Azure.

Overall, my experience in Typescript, JavaScript, and React, coupled with my excellent communication skills and commitment to quality, enabled me to contribute to the successful completion of the project.

## Fullstack Engineer ( React / Typescript ) at Axel Johnson AB

January 2023 – August 2023

As a Full-Stack Engineer, I made significant contributions to the "Chain Sling Configurator" project. Leveraging my expertise in Typescript, JavaScript, and React, as well as playing a key role in enhancing the performance of the application.

I successfully tackled and resolved various bugs, ensuring the stability and smooth operation of the application. As well as adding new features to expand the functionality of the application, meeting project requirements and exceeding performance expectations.

To optimize performance and enhance the build process, I wrote a new webpack configuration. This resulted in improved efficiency and reduced build times, enabling a seamless user experience. Furthermore, I streamlined the deployment pipeline, ensuring faster and more efficient releases.

As part of my responsibilities, I updated dependencies and diligently addressed any issues arising from this process. This proactive approach ensured the application remained up-to-date, secure, and in compliance with industry standards.

In summary, my role as a Typescript/React Full Stack Engineer involved utilizing Typescript, JavaScript, and React to improve the UX/UI, solve bugs, add new features, optimize the webpack configuration, streamline deployment, and maintain dependencies.

## Full Stack Software Engineer at Edge.gg

February 2022 – September 2022

As a software engineer at Edge, I have been responsible for building highly scalable TypeScript/Node.js microservices and REST APIs that handle and process hundreds of thousands of social media posts and influencer metadata. My work has focused on automating the process of hiring, delegating work to, and paying social media influencers.

In this role, I have also worked extensively with AWS technologies such as EC2, S3 buckets, and Fargate. I have led the migration of our database from NoSQL (MongoDB) to Postgres, and contributed to a migration tool built in C#.NET that utilized multiple threads for optimal performance.

In addition to backend development, I have also contributed to the front-end development of Edge.gg using Tailwind CSS and React to build reusable, mobile-friendly components that offer a fresh and utilitarian UX/UI.

Throughout all of my work, I prioritize a Test-Driven Development approach, writing many unit tests using Jest/JUnit.

Some of my key accomplishments include:

- Designing the UX/UI for a drag and drop contract builder, which involved implementing logical gates to determine contract completion requirements such as "this AND this" or "this OR that".

- Building REST APIs in TypeScript to facilitate seamless communication between different parts of the application.

-Assisting in the rebuild and redesign process of the application from the ground up, contributing to architectural decisions and implementation.

-Building a microservice to find, process, update, and check social media posts for contract completion requirements.

-Writing a database migration tool in C# to facilitate the migration from NoSQL to Postgres.

## Full Stack Engineer at Selligence

September 2021 – February 2022

At Selligence, I was tasked with re-designing and re-developing the entire application from the ground up in TypeScript. The tool utilizes AI to scrape news articles, formulate a sentiment score, and predict whether a company is entering a period of Hiring, Firing, or stagnation.

The original application was built in Python, limiting the development of new features on the web app, and making the hiring market for Python much harder than for TypeScript. Therefore, my responsibility was to leverage TypeScript to design fast, scalable REST APIs and services using microservice architecture, Kubernetes, and Docker.

My tasks included auditing and documenting existing endpoints, writing TypeScript microservices, implementing REDIS, and implementing JWT for authentication. In addition, I assisted DevOps in configuring Kubernetes and explained to executives the critical nature of clearing technical debt.

I used React to improve the user interface and user experience, making the application more intuitive and user-friendly. My contributions led to significant improvements in the application's performance, scalability, and resilience.

Overall, my experience at Selligence has equipped me with extensive knowledge of TypeScript, React, Kubernetes, Docker, and microservice architecture. It has also taught me the importance of clear documentation, technical debt management, and effective communication with stakeholders.

## Full Stack Engineer (React/Nodejs) at Forcyte.io

September 2020 – September 2021

As a Frontend Developer at Forcyte.IO, I led the development of a user interface for their drone power management system. The interface, built with React-Typescript, featured a live map displaying each drone's location, battery status, and video feed. Additionally, I built a system to track, store, and generate reports on location data utilizing REST API microservices hosted on AWS EC2s.

My key responsibilities included designing the database for storing current and historical location and charge data, as well as onboard specifications of specific drones. I also designed and documented coding standards for future hires, and contributed to the planning process of AWS infrastructure.

In terms of UI/UX design, I was responsible for designing the frontend application and

finding innovative ways to display a large amount of data in a clear and concise manner. Other accomplishments included building REST APIs and database abstraction layers in TypeScript and Prisma, and leading the team in developing efficient and scalable code. My expertise in React and strong collaboration skills allowed me to successfully deliver a high-quality product within project deadlines.

## Full Stack Developer at Dayinsure

March 2019 – September 2020

As an experienced software engineer at Dayinsure, I have worked with a diverse range of technologies, specializing in TypeScript and NodeJS. During my time at Dayinsure, I have been involved in team projects as well as solo tasks in an agile environment, utilizing C#.NET Core, JQUERY, AngularJS, and React.

In particular, I worked extensively on Dayinsure's 'connect' product, implementing new features, and maintaining and resolving bugs in existing systems. As Dayinsure was transitioning from AngularJS to React, I played a significant role in planning and completing this migration.

My responsibilities at Dayinsure included designing UX/UI, writing anti-fraud software, developing API endpoints in C#.NET, transitioning from AngularJS to React, and participating in Bug Triage and ticket priority meetings.

Overall, my experience at Dayinsure has equipped me with strong technical expertise, enabling me to excel in collaborative environments while delivering high-quality results in fast-paced and complex projects.

## Full Stack Developer at Zoek UK

March 2018

As a developer at Zoek, I sharpened my expertise in JavaScript technologies, including NodeJS, Express, and front-end technologies such as React.js and Sass

During my tenure at Zoek, I have had the opportunity to work on both the front-end and back-end of the application, which has allowed me to become a full-stack developer within just six months. I have acquired invaluable skills in C#.NET and NodeJS, which have enabled me to rebuild the website and overhaul the backend infrastructure.

In addition to my technical abilities, I have gained experience in writing comprehensive documentation, which I believe is an essential component of the development process. By reducing investigation time and simplifying onboarding for new developers, documentation is vital to a project's success.

At Zoek, I have been responsible for writing front-end components in REACT, developing new API endpoints, maintaining existing ones, and clearing technical debt. I have also participated in weekly bug fix triage meetings and have contributed to the development of machine learning software to facilitate faster job searching and matching.

Overall, my experience at Zoek has equipped me with a diverse skill set that enables me to develop, maintain, and optimize complex applications effectively.

**HOBBIES**

I'm a curious guy who loves technology. I enjoy exploring how things work, both in the tech world and in other fields!