

# Michael Jerred

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## Profile

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I am a London based developer with 20 years of coding experience, 12 of which have been working professionally on a variety of software applications. I first started coding when I was a kid and it has been a lifelong passion!

## Expertise

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- \\ Web / Electron / single-page app / REST API development
- \\ Cloud infrastructure, CI/CD, DevOps
- \\ Code architecture, best practices, mentoring, code review
- \\ Strong mathematical foundation

## Technologies

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An exhaustive list of technologies that I have worked with for >1000 lines of code:

Typescript, Javascript, Python, C, C++, C#, Rust, Go, x86 assembly, PHP, Java, Visual BASIC, Delphi, Angular, React, Solid, jQuery, RxJS, Nxgs, HTML, CSS, SCSS, Bootstrap, lodash, Material UI, Bash, PowerShell, Terraform, Docker, Google Cloud Platform, Azure, AWS, GitHub Actions, .NET, LINQ, Node.js, Express, FastAPI, Electron, SQL, Entity Framework, MongoDB, Neo4j, Elasticsearch, Playwright, Moq, Jasmine, Karma, Mocha, Chai, Pytest, Webpack, Vite, Knockout.js, Highcharts, Gulp, NuGet, npm, pip, Poetry, Git.

## Achievements

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- \\ I was the lead front-end developer on a greenfield project for Deloitte to build a tool that estimates the cost of clinical trials, and ended up being used in the development of the AstraZeneca COVID-19 vaccine.
- \\ I built an open-source npm package ([ngx-strong-forms](#)) to provide strongly typed reactive forms for Angular, and opened a corresponding Angular pull request based off of this work ([#40772](#)). This set the groundwork for development of the feature by Google, which became available in Angular 14.
- \\ I built a graphical Git client called [Glint](#) as a solo side project. This required learning about Git internals, building an Electron desktop app, creating CI/CD pipelines, and building supporting infrastructure including a website and OAuth server.

# Commercial Experience

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## Lead Developer (Contract)

Jul – Dec 2023

Shell Energy

Python, FastAPI, React, Typescript, GitHub Actions, Azure

I worked with the UI designer to build data visualisation tool from scratch to assist with energy market reports. I also provided guidance to more junior developers in the team working on their own projects.

## Lead DevOps Engineer (Contract)

May – Jul 2023

Shell Energy

Python, FastAPI, React, GitHub Actions, Azure

An ex-colleague brought me in to take over during his paternity leave. I mentored junior developers, reviewed code, and made design decisions about architecture & implementation.

## Senior Frontend Developer (Contract)

Sep 2022 – Jan 2023

Mobeus

Typescript, Angular, Electron

I worked on an online video chat app similar to Google Hangouts or Microsoft Teams. Specifically, I developed a feature to allow users to record and save their meetings, and worked on an algorithm that processes data from a neural net in order to draw an outline of the user's hands.

## Senior Full Stack Developer (Contract)

Aug 2021 – May 2022

Centaur Media

C# .NET, Typescript, Angular, OAuth

I worked on a website CMS + front-end and an SSO OAuth integration.

## Senior Backend Developer (Permanent)

Jun 2020 – Aug 2021

Vonage

Java, AWS, Kubernetes, Python

I worked as a developer on the Voice API team.

## Senior Full-stack Engineer (Contract)

Sep 2019 – Apr 2020

Centaur Media

C# .NET, Typescript, Angular, AWS Lambda, SQL

I came in to help with the development of a new CMS project.

## Lead Front-end Engineer (Contract)

Nov 2018 – Sep 2019

Deloitte & AstraZeneca

Angular, Typescript, Java, MongoDB

I was the lead front-end developer and architect on a new tool to calculate the costs of clinical trials. I was responsible for structuring & building the front-end code, as well as mentoring other developers. I also did some work on the back-end at times when required.

## Software Developer (Contract)

May 2018

Imagination

I built a small library to replicate some segment.io analytics functionality.

## Senior Developer (Contract)

Mar 2016 – Jul 2017

Centaur Media

C# .NET, Typescript, Angular, SQL, Elasticsearch, Neo4j

I transitioned into contracting at the same company where I was employed.

## Mid-level Developer (Permanent)

Aug 2014 – Feb 2016

Centaur Media

C# .NET, Typescript, Angular, SQL

I lead the development on a greenfield project, which including building a custom CMS. I designed the architecture for the front-end, and built a skeleton back-end to interface with the database. After this initial phase the other developers joined in and we each worked on separate modules. Using this approach we were able to develop with a high degree of parallelization, and finished the project ahead of schedule.

## Junior Web Developer (Permanent)

Aug 2012 – Jun 2014

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C# .NET, Javascript, jQuery, HTML, SQL

I worked as a junior developer on insurance websites.

## Qualifications

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2008 - 2012 **MSci. Mathematics and Physics**

*University of Bristol*

2008 **UK Physics Olympiad**

Gold medal & one of 15 chosen to attend the International Olympiad preparation camp

*University of Oxford*

2006 - 2008 **5x A2 Level, Physics Advanced Extension Award**

Physics, Chemistry, Maths, Further Maths, Further Maths Additional

*The Manchester Grammar School*