



Daniel Cooke

Software Engineer

Javascript specialist with a computer science background and over **6 years of professional experience**. I obtained my 1st class honours in 2018 from Queens University Belfast. I consider myself to be an **expert in React and NodeJS**. I have a passion for software development, and I am constantly reading and learning new things.

Contact

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Website

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Github

<https://github.com/dan-cooke>

StackOverflow

<https://stackoverflow.com/users/5645292/daniel-cooke>

Education

2014-2018

1st Class BSc Computer Science
Queens University Belfast

Expertise

- React
- Node
- Typescript
- NextJS
- Docker
- AWS
- MongoDB
- Design patterns
- Software Architecture
- Project Leadership
- Vim

Interested in

- Arch Linux
- Rust
- Microservices
- Golang

Experience

2023 (4 months) Contract

Fundamental VR | Remote

Full Stack Engineer

At FundamentalVR I was part of a team of 3 developers in charge of delivering a **Electron (React)** application to replace a legacy unity application. We had ownership of our **serverless REST API** along with several supporting services. We worked under intense time pressure and managed to deliver a high quality product in 3 months, complete with a comprehensive test suite and a reliable and available REST API. Utilising async event systems wherever possible to reduce load on key webhooks and services.

Main technologies: Electron, React, Typescript, Node, Serverless Framework, AWS (Cognito, Lambda, SQS, SNS, DynamoDB, S3)

2021 - 2023 (1 year 8 months) Contract

eXRt Intelligent Healthcare | Remote

Full Stack Engineer

I was contracted by the founder and CEO to develop their MVP MedTech app ReSynk which assists in the rehabilitation of stroke patients. I worked closely with the founder and their VR team to deliver a comprehensive and reliable API with accompanying dashboard application. One of highlights of the project was the implementation of a WebRTC video conferencing feature that allows doctors to monitor their patients VR sessions remotely.

Due to the sensitive nature of the domain, security was an upmost concern from day one. I implemented a custom authentication system that considers both the accessibility needs of the users, as well as the mission critical data flowing through the system every day. The app is currently live in production with several hospitals around the UK, and I continue to provide support and maintenance to eXRt.

Main technologies: React (Remix), Node, NestJS, MongoDB, Typescript, Swagger, AWS (Cognito, Lambda, S3, SNS, SQS, EventBridge, DynamoDB), Cypress, Docker, Fly.io, Docker

2023 (3 months) Contract

Nigma / Poppins Agency | Remote

Frontend Engineer

As a Frontend Contractor at Poppins Agency, I crafted two visually striking marketing sites from scratch over three months. These sites featured intricate **Figma** designs and utilized **CSS** animations extensively.

My role encompassed setting up the **Storyblok CMS** and designing a **monorepo** of libraries to accelerate future app development. Noteworthy is my proposal to the core **Storyblok** team for an SDK aimed at expediting CMS configuration for developers.

Key technologies I employed include **Next.js** for dynamic web functionality, **TailwindCSS** for efficient styling, and **TypeScript** for code robustness. This setup facilitated smooth content management and site maintenance.

Throughout this engagement, I showcased an ability to deliver complex design concepts and optimize development workflows for lasting efficiency.

Main technologies: NextJS, TailwindCSS, Typescript, Storyblok

2022-2023 (8 months) Contract

Point Topic | Remote

Solutions Architect

As a Solutions Architect, I lead a team of 3 junior developers to replace an outdated system with a brand new platform within a year. The main goals from my involvement were as follows.

1. To upskill the 3 junior developers so the business had an in-house team capable of building further products and delivering value without outsourcing.
2. To ensure a smooth delivery of their new subscriber platform within a timely fashion.

I provided ongoing support, architected the system on AWS and worked closely with C-levels and key stakeholders to ensure a timely delivery.

I introduced the team to a basic MERN stack, utilizing AWS for static hosting, Auth0 for authentication, and NestJS with MongoDB for the backend. This architecture was chosen to support future expansion and familiarize the team with foundational concepts.

I held a daily technical scrum where we focused on any blocker, I remained in close contact with the team over Slack and delivered bi-weekly end of sprint demos to the CEO.

Overall the outcome was extremely positive. In-fact the team have just recently developed an internal application for the business without my assistance!

Main Technologies: React(Remix), Typescript, Node, MongoDB, NestJS, AWS (S3)

2021 - 2022 (1 year 3 months) Contract

TerraQuest | Remote

Frontend contractor

During my tenure at TerraQuest, I was an integral member of the frontend team responsible for creating a land referencing portal for the Northern Irish government. This initiative was part of a broader project spanning the entirety of the UK.

Recognizing the importance of **SEO** for public-facing websites, I proposed a strategic overhaul by transitioning the existing **GatsbyJS** frontend to **Next.js** (they had a lot of dynamic content that would be painful to deliver statically). To advocate for this transition, I spearheaded the development of multiple **Next.js** prototypes, effectively showcasing the advantages to stakeholders.

Additionally, I played a pivotal role in enhancing the organization's component library. This involved contributing complex components such as a headless Data Table and a Date Picker, both of which significantly enriched the library's capabilities.

Main technologies: React (Gatsby, NextJS, CRA), Typescript, Chakra-UI, Styled components, Storybook, Jest, react-testing-library

2018-2021 (2 years 10 months)

IBM Security | Belfast

Senior Software Developer

IBM was my first major role after graduating from university, and what a learning experience it was. I was surrounded by some incredible engineers, on the QRadar UI team. During my time working on the QRadar SIEM I worked with **NextJS** and **NodeJS** extensively. We maintained a complex **GraphQL API gateway** that connected the various QRadar Java services. I received multiple promotions at IBM and had the opportunity to travel around the world and talk at several events on topics such as **Docker** and **Cypress**. Working on a data-intensive system like a SIEM, our UI had to be very cognant and efficient with its data fetching using tools like graphql/dataloader to ensure we aren't overfetching and implementing exponential backoff for failed requests. Testing was paramount on a system like this, and I developed several testing dashboards and utils to assist with our **Cypress e2e testing**. I had several placement students under my mentorship by the end of my tenure and thoroughly enjoyed every moment of this role!

Main technologies: React (NextJS), Node, Express, GraphQL (Apollo Client / Apollo Server), Docker, Kubernetes, Webpack, Cypress, Travis CI, Carbon UI, Styled components + more

2016 - 2017 (13 months)

AMT Sybex | Belfast

Software Development Intern

At my internship at AMT, I was part of the frontend team in charge of delivering an **Angular web application** for tracking cattle in Northern Ireland. During my time there I learnt much about web development including best practices in **testing** and **Typescript**. I also learnt a lot about continuous integration and version control.

I war briefly involved in setting up the Jenkins build server for the Java backend, due to my previous Java experience.

Main Technologies: Angular ,Typescript, Jest, Jenkins