



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 - Present (4 months)

Fundamental VR | Remote

Software Development Contractor

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. Adopting a rigorous TDD approach we had great faith in our commits to master. During my time here I developed a deeper understanding of Windows software development and consider myself quite proficient in building performant secure **Electron** applications.

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

2021 - 2023 (1 year 8 months)

eXRt Intelligent Healthcare | Remote

Software Development Contractor

In my role **developer and architect**, I am accountable for the entire web application, which includes a dashboard web UI, a Serverless REST API, a WebRTC signaling server, and a **bespoke authentication system utilizing Cognito and Lambda**. I work under high-pressure deadlines and am responsible for **producing API documentation** for the VR team to incorporate into the application. Additionally, I steer the project's technical direction, **guarantee high availability** for their production clients, and **perform critical data migrations when required**.

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)

Nigma / Poppins Agency | Remote

Software Development Contractor

As a Software Development 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)

Point Topic | Remote

Solutions Architect Consultant

As a Solutions Architect, I guided an inexperienced team to replace an outdated system with a custom subscriber platform within a year. I provided ongoing support, conducted demos, and led daily scrums to ensure progress.

I also 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.

These choices were grounded in quantifiable justifications and aligned with management goals. Through my role, I facilitated both immediate success and long-term growth, resulting in a versatile and proficient solution.

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

2021 - 2022 (1 year 3 months)

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**. 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

Software Engineer

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.

Main Technologies: Angular ,Typescript, Jest, Jenkins