

Tom Oliver

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- Skilled Software Engineer with over 3 years experience in industry.
- Specialised in front-end development (React).
- Strong Computer Science fundamentals.
- Passionate advocate of functional clean code that is robust and easy to test.
- Excels at creating efficient workflows and improving existing systems.

Recent Personal Projects

[Personal Programming Blog](#) (Work in progress)

- Nextjs
- Uses MDX for blog articles
- Entirely SSG

[Japanese Pitch Accent Dictionary](#)

- Nextjs
- MySQL
- Serverless architecture

Professional Experience

2022

96 Digital - Remote, UK

Independent Developer, Consultant

Freelance project to develop a business website for 96digital ltd.

I created a [bespoke homepage](#) for the client.

Accessibility

- Users of the site can reposition the menu to any of the four corners of the screen to better suit their preference.
- The site can be navigated solely using a screen reader to support those users who are visually impaired.
- Keyboard only users can also experience the site using tab navigation.

Performance

- Although visually striking and rich, the site does not sacrifice any performance to achieve this.
- I achieved a performance score of: mobile: 93, desktop: 100 - according to [pagespeed insights](#).

2021

Userbase - Remote, Tokyo - Japan

Full Stack Software Engineer

Working as part of a extreme programming team I helped develop a business to customer [product](#) for the expert economy.

Software development practices

- Top down test driven development, i.e e2e -> integration -> unit
- 100% Pair programming environment
- Development team lead operations

2019-2021

Visional - Remote, Tokyo - Japan

Full Stack Software Engineer

Software Engineer at Bizreach Customer Product Development Division
High class job switching service

Responsible for developing the front end of the [Bizreach Premium Career platform](#)

- Choosing the technology stack
- Front-end "owner"
- Discussing requirements with the product planning division

2016

ARM - Warwick, UK

High Performance Computing Tools intern

Worked on improving a distributed debugger tool for use on Super Computer Clusters

Education

2015–2019

Bsc Computer Science - 1st Class

University of St Andrews

Awarded a place on the Dean's list for Academic excellence for each of the 4 years of my stay.

Dissertation subject: Visualisation of Constrain Solver Search Paths.

Honours Modules:

- Operating Systems
- Databases
- Constraint Programming
- Networking
- Computational Complexity
- Data Encoding
- Computer Security
- Artificial Intelligence
- Logic and Software Verification
- Software Engineering Principles
- Software Engineering Practice
- Information Visualisation and Visual Analytics

Languages

Machine

TypeScript

- React
 - * Nextjs, GatsbyJS, Create React App
 - * Recoil, ReactQuery
 - * StyledComponents, Emotion
 - * Jest, Cypress, Enzyme
- Generics, including react components.
- Experience writing functional code using the [fp-ts](#) library.
- Open API
 - * Creating OpenAPI Schemas
 - * Using Generated OpenAPI Functions
- Node

Other Proficient Languages

- Python3
- Rust
- Kotlin
- Haskell

Continuous Integration

- Circle CI
- Github Actions

Databases

- Database Normalisation / Schema Design
- MySQL
 - * Recursive Queries
 - * Stored Procedures
 - * Performance Tuning, Indexes
- PostgreSQL
 - * Transactions
 - * Dev Ops

Infrastructure

- Vercel
 - * Serverless Functions
- AWS
 - * S3
 - * RDS

Human

English

- Native

Japanese

- [Fluent \(JLPT N1\)](#)

Preferred Tools

ubuntu nixOs neoVim dwm/sway git latex ssh ripgrep prettier eslint