

# 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
- Uses a combination of statically and client rendered pages

## 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
- Time management
- 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

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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

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### 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

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