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

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
  * Severless Functions
- AWS
  * S3
  * RDS

Human

English

- Native

Japanese

- Fluent (JLPT N1)

Preferred Tools

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