David Johnston

Full Stack JavaScript Developer

david@blacksheepcode.com

Core Skillset

JavaScript | TypeScript | Node | React | CSS of most flavours (SASS, JSS, styled-components)

Material UI | ExpressJS | Jest | React Testing Library

Webpack | Babel | ESLint

Event driven architecture | Microservices architecture | Docker | Terraform | AWS

Creating abstractions/frameworks for developers

UI Design systems | Segment

Employment History

Whispir   January 2020 - Present

Senior Software Engineer

Working in a product stream that provides end users the ability to create conditional workflows and dynamic web page or email content via a drag and drop interface.

Debugging and improving tooling on a shared monorepo; Webpack, TypeScript and linting configurations, notably removing the need for developers to run a 20 minute bootstrap step sometimes multiple times a day.

Created a new, fully typed, declarative framework for allowing users to create dynamic React content. This removed the need for developers to make changes in three places across two packages, to making changes in one single file.

Created a 'serviced component' microservice template - with the goal to provide opinionated boilerplate to allow developers to hit the ground running creating frontend-enabled microservices. The template includes pipeline configuration, infrastructure-as-code, frontend and backend tests.

Large focus on developer experience. Instrumental in moving towards using React Testing Library over Enyzme. Set up Buildkite pipelines.

Interviewing candidates for senior, tech lead positions.

Created an interactive eight-part TypeScript tutorial series for developers.

As a member of Whispir's Diversity and Inclusion committee I was able to get accessibility included as a product priority, one result being that external consultants were hired to perform an audit.

Araza   September 2019 - January 2020

Contract Developer - Tech Lead

Assumed responsiblity for a ticket management SaaS startup project, that involves third party integrations.

Created a component library for the frontend, added TypeScript, and wrote integration tests using an in-memory mongo database to test the backend.

Created a simple CI/CD flow using bitbucket-pipelines.

Responsible for interviewing and onboarding a second developer.

Employment History

460 Degrees March 2019 - June 2019

Contract Senior Software Engineer

Responsible for architecting and implementing a proof of concept demonstrator that showcases the Hyperledger Indy (Libindy) Self Sovereign Identity (SSI) framework.

One part of this was building two simple conventional CRUD apps, one a student portal where the user can see their academic transcript, and the other a job site where they can apply for job.

The second part was to build a reusable generic Express RESTful API wrapper around the Libindy SDK. This functionality was then integrated into the conventional apps to allow the issuing of, and then sharing of, an academic credential.

Telstra November 2018 - March 2019

Contract Web Developer

Responsible for implementing features and maintaining an internal service order form, to achieve a project milestone.

DreamWalk August 2018 - November 2018

Contract Web Developer

Portfolio: https://myfootprint.socialfootprintindex.org/login

Sole charge responsible for building the frontend of this social footprint application over eight weeks.

Perplexico May 2018 - August 2018

Contract Web Developer

Responsible for creating a buyer/seller matching platform, for commercial real estate rentals.

Datacom August 2016 - April 2018

Intermediate Java Developer

- Responsible for a mobile responsive reskin of the RealMe digital identity platform, and other feature work.
- Created a proof of concept example of how we might implement our existing tech stack on a Kubernetes cluster.

Inland Revenue January 2013 - August 2016

Intelligence Analyst

- Extract/Transform/Load developer on a big-data risk assessment project.
- Created a node-and-edge graph display and manipulation tool.

Education

Bachelor of Science

University of Canterbury, New Zealand, 2012

Computer Science major

Bachelor of Arts

Otago University, New Zealand, 2007

Philosophy major

Portfolio

Presentations

Using Redux-Saga to making testing easier (2019).

A talk outlining how redux-saga works, explains JavaScript generator functions, and shows a comparisson of redux-thunk and redux-saga, and how redux-saga makes for easier testing.

https://github.com/dwjohnston/react-redux-saga-demo

- Melbourne React Meetup - February 2019

Generative Art with JavaScript

A talk about creating generative art using JavaScript - giving an outline of various techniques and technologies to use, and how such a side project can help upskill your career.

- MelbJS - March 2019

Tutorials

JavaScript 101

https://github.com/dwjohnston/javascript-101

JavaScript/HTML/CSS tutorial for beginners

Typescript Tutorial Series

https://github.com/dwjohnston/ts-tutorial-series

Introduction to TypeScript, working its way up to advanced TypeScript

Socials/Contact

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https://github.com/dwjohnston

https://www.linkedin.com/in/davidjohnstonwebdeveloper/

https://stackoverflow.com/users/1068446/dwjohnston

About this CV

This is an HTML CV.

It's using the pug templating engine, and renders to PDF via a library called html5-to-pdf.

See the code here: https://github.com/dwjohnston/cv