

## Stewart Duffy – Senior Front-End Developer

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**Senior Front-End / Full-Stack JavaScript Developer** with nine years commercial experience with a variety of clients in the following industry sectors, Utilities, Fintech, Banking, Data Warehouse, Telecommunication, Travel, Education, Retail, Print Media and Advertising. Core skills include JavaScript, HTML5, CSS.

Flexible in working environments having been placed at start-ups, digital agencies, large corporate and software companies.

Equally as happy getting stuck into a solo project as thrashing out ideas in a cross-discipline team to develop a solution. Enjoys a challenge and strives for continual improvement to develop in better, quicker, and more efficient ways which has enabled successful training and mentoring of colleagues.

Excellent communication skills proven through effectively working with people from both technical and non-technical backgrounds. Motivated by bringing products to life.

**Available for contract work with two weeks' notice for starts in Auckland.**

**References are available on request.**

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<b>Languages:</b>	JavaScript / ECMAScript (ES5/6/7/8), TypeScript, HTML5, CSS3, Sass / SCSS (SMACSS), LESS, PHP.
<b>Frameworks / Libraries:</b>	React, React Native, Redux, Redux-saga, Node.js, Express, Electron, AWS AppSync / Amplify (GraphQL), Apollo Client, Meteor, Google Maps API, Gatsby, Material-UI, WordPress.
<b>DevOps / Build Tools:</b>	Jenkin, Terraform, Gitlab CI/CD, Travis CI, TeamCity, npm, Webpack, Babel, Rollup, Gulp, Grunt, Sentry, ESLint, Prettier.
<b>API interaction:</b>	GraphQL, REST.
<b>Design Tools:</b>	Sketch, Adobe Photoshop, Illustrator, Fireworks.
<b>Automated Testing:</b>	Jest, Enzyme, Nightwatch.js (E2E), Mocha, Chai, Sinon.
<b>Version control:</b>	Git, GitHub Flow, git-flow, Gitlab, SVN, Mercurial.
<b>Methodologies:</b>	Agile / Scrum, Kanban, TDD.
<b>Databases:</b>	MongoDb, CouchDB, MySQL.

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### Education & Qualifications

2018	Elttam Professional Hacker Security Training
2010	Diploma of Digital Media - Media Design School Industry Panel Award - Highly Commended for Technical Achievement.
2008	Bachelor of Arts (Marketing and Screen and Media Studies) – Waikato University

## Employment History

### Watercare (Strategic Transformation Programme) (August 2019 – Present)

#### React / JavaScript Developer

I am currently contracted to Watercare, my main role here has been to work as part of a team developing a Job Safety Analysis tool. As the only Developer within the Team with prior Front-End and React experience, this has involved taking a Lead Role in delivering a workable solution within tight timeframes, and also mentoring and assisting other Developers within the team to up-skill and learn React. I also work closely with the Solutions Architect to assist in technical design and recommendations.

#### Responsibilities:

- Act as Front-End Lead to direct the Project and Developers within the Squad.
- Work with the Product Owner, Business Analyst and UX Designer to negotiate achievable deliverables.
- Establish a Continuous Integration build process.
- Promote Agile and UX to the other Developers in the Squad.
- Participate in Focus Groups, User Testing and ideation sessions.

#### Job Safety Analysis:

The Job Safety Analysis (JSA) is a digitisation of a paper-based system with the aim to provide a convenient way to identify hazards and risks, and to ensure the process is clear and concise.

This is a React Single-page application using GraphQL and has offline support using AWS AppSync. It uses AWS Amplify and Apollo Client for HTTP requests, Redux for local state management, and react router for routing. UI components are built using Styled Components and are showcased using Storybook. It is hosted on AWS S3, uses AppSync as a GraphQL service, and Lambda with SendGrid for transactional emails. Authentication is handled by Amazon Cognito.

#### Technical snapshot:

AWS AppSync / Amplify (GraphQL), Apollo Client, TypeScript, JavaScript / ECMAScript (ES5/6/7/8), React (React Hooks), Redux, Styled Components, React DnD, Immer, Formik, Contentful (Headless CMS), Material-UI, Storybook, ESLint, Jest, Jenkins, Terraform, Bitbucket.

### Paymark (March 2017 – August 2019)

#### React / JavaScript Developer

I was contracted to Paymark to work on their Online EFTPOS merchant portal, and have since been involved in multiple projects and have influence in the majority of their Front-End and mobile applications. I have provided technical leadership in the Front-End, organised and run educational workshops, and worked with the Solutions Architect to design technical solutions.

#### Responsibilities:

- Front-End and mobile development as part of multiple Scrum teams.
- Act as Front-End Lead to help hire, onboard and support other Front-End Developers.
- Establish a standard Front-End stack to be used at Paymark.
- Build and maintain a shared UI component library to be used by multiple products.
- Run workshops to educate Developers on React and other related topics.

Some of the projects I have been working on at Paymark are:

**Online EFTPOS merchant portal** - <https://www.paymark.co.nz/products/online-eftpos/>

Online EFTPOS enables customers to pay online using their mobile number, and approve the transaction via their banking app. The merchant portal is where merchants can view transactions, make refunds, and retrieve developer integration credentials.

This is a React Single-page application, bootstrapped with create-react-app. It uses Redux for state management, redux-saga for side effects, axios with async/await for HTTP requests, and react router for routing.

Styles were initially built with SCSS and CSS modules, and have been recently migrated over to JSS (CSS-in-JS) which has allowed us to successfully implement a shared UI library which supports theming and style overrides.

**Open Payments Platform: Consumer App** – <https://www.paymark.co.nz/future/>

Open Payments Platform is the system used to build an instore experience for Online EFTPOS. This includes making payments via facial recognition and QR codes. The consumer app was built as part of the instore trial with Burger Fuel, which allows existing Online EFTPOS users to register their face as an authentication method to be used to process payments.

This is built with React Native and Expo, uses redux for state management, redux-thunk for handling async actions and is styled using styled-components. It uses the Expo face detection API and the face landmarks to derive if the face being registered is alive (not a photo).

**Open Banking Pilot**

Paymark were involved in the Open Banking Pilot. As part of this, I was seconded to BNZ in Wellington. This was to build the account selection and confirm the payment app that was part of a wider Open Banking flow. This was a React application, that was bootstrapped using BNZ's own fork for create-react-app that included their UI component library.

**Technical snapshot:**

JavaScript / ECMAScript (ES5/6/7/8), React (React Hooks), React Native, Expo, Redux, Redux-saga, Angular, TypeScript, RxJS, Electron, Formik, Babel, Webpack, rollup.js, HTML5, Sass/SCSS, CSS3, PostCSS, CSS-in-JS, Material-UI, React Storybook, ESLint, Stylelint, Jest, GitLab CI, GIT, Jira, Sentry, Axios.

**WhereScape (August 2016 – March 2017)**

**React / JavaScript Developer**

I was contracted to WhereScape for six months as a React Developer to work on the 'Accelerated Metadata Platform'. I was responsible for building and testing the user interface for the Single-Page application. This application will be deployed as an instance on the customers server, this means it was critical that our code was thoroughly reviewed and tested (both unit and E2E).

**Responsibilities:**

- JavaScript and Front-End UI development as part of a Scrum team.
- Document code using JSDoc and Confluence.
- Undertake code reviews.
- Write unit tests using Jest, Enzyme, Sinon.
- Write E2E tests using Nightwatch.js.

**Tourism Holdings Limited / Highway (September 2015 – August 2016)**

**Senior Full-Stack JavaScript Developer**

I was employed as a Senior Developer to build the Highway web application and was involved in building the product through to the successful initial release. I also built a library of reusable React components, and had an active role in establishing an Agile environment within the Company. I was frequently involved in code reviews and mentoring Junior Developers.

**Responsibilities:**

- Full-stack JavaScript and Front-End UI development as part of a Scrum team.
- Lead in UI development and maintain component library.
- Mentoring Junior Developers and participate in code reviews.

**Spark Ventures (March 2015 – September 2015)****Senior Front-End Developer**

I was employed as a Senior Front-End Developer to build and maintain web applications. I primarily worked in a scrum team, and also closely with the wider enablement team to ensure that our development, testing and releases matched the business requirements.

**Responsibilities:**

- Participated in refinement meetings to scope upcoming stories.
- Worked on technical grooming documents for project deliverables.
- Front-End development as part of a Scrum team.
- Assisted in writing technical tests and undertaking interviews for potential candidates.

**ELGIN (July 2012 – March 2015)****JavaScript / Front-End Developer**

I was employed as a Front-End Developer to work on the roadworks.org web application and develop the Traffic Management Application. This role was highly JavaScript orientated with a focus on good quality and maintainable code.

**Isobar Mobile (March 2012 – June 2012)****Front-End Web Developer**

I was contracted as a Front-End Web Developer, my work was primarily targeting mobile devices which involved a mixture of Front-End, WordPress and API integration.

**Born Digital (September 2011 – January 2012)****Front-End Web Developer**

I was employed as Front-End Web Developer to maintain existing sites as well as develop new projects for clients.

**Image Centre Group (November 2010 – September 2011)****Web Developer**

I was employed to develop new web sites and applications, and maintain existing sites. This position involved a mixture of Front-End development and PHP / WordPress development.