Aaron Marr

Full-stack Web Developer

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Summary

I'm a full-stack developer with experience in:

- Front-end web development: React, Redux, JSX, Sass, JavaScript, ES6
- Back-end development: Node.js (Koa), Python (Wagtail), Ruby on Rails, Slim PHP, WordPress
- JavaScript Frameworks: React, Koa, Backbone, Marionette, jQuery, D3
- Design patterns: Functional, OOP, MV*, Redux, Composition, Observer
- Databases: Couchbase, Google Datastore, Influx DB, Postgres, Mongo DB
- Sass architectures: BEM, 7–1, ITCSS, SMACSS, Atomic CSS
- Atomic Design, Pattern Lab
- Version control: Git, SVN
- Dev-ops: Google Cloud, Docker
- Test driven development: Mocha, Chai, Jasmine, TestUnit
- Build tools: NPM Scripting, Gulp, Grunt, Webpack
- UX / UI design
- Agile processes: SCRUM, Kanban

I'm a passionate, hard-working individual with excellent communication and creative problem solving skills. I enjoy building web sites and applications which are robust, testable and easy to navigate.

Work History

Apr 2017 - Present	**Full-stack Javascript Developer**

Swoop Applications

Working in a full-stack development capacity as part of a multi-disciplinary team, building next-generation web applications for the retail services industry for clients including Tesco, WHSmith and PaddyPower.

Front-end Development

- React / Redux front-end development
- Unit testing (Mocha, Chai, Sinon)
- Front-end architecture and feature development

Back-end Development

- Node.js / Koa server-side development
- Couchbase / Google Datastore
- Docker / Google Cloud administration
- Unit testing (Mocha, Chai, Sinon)
- Python / Wagtail development

Apr 2016 - Apr 2017   **Front-end Developer**

Torchbox

At Torchbox I was responsible for delivering bespoke, custom front-ends for Drupal and Wagtail CMS platforms. I've had the pleasure of working with some high profile, charitable organisations including Mencap, Ambition School Leadership and Children's Investment Fund Foundation.

Front-end Development

- Front-end development using HTML5, Sass and Modular ES6 / JavaScript
- Leading / consulting on front-end architectures, including BEM ITCSS and 7–1 Pattern
- Leading the front-end development of medium and large-scale Drupal and Wagtail builds

- JavaScript library development using Babel Starter Kit
- Leading on Atomic Design / Style-guide driven development using Pattern Lab
- Agile processes, including Kanban

Oct 2015 - Apr 2016

Web / Software developer

Self employed

Building a range of B2B and B2C interfaces for clients including Barclays, Admiral, The AA and Confused.com.

Web / software development
- Front-end development using HTML5, Sass and JavaScript
- Implementing build process automation using Gulp.js
- Implementing front-end dependancy management using Bower
- Development of prototyping framework (style-guide) using Jekyll
- jQuery plugin and extension development
- Working with the design team to ensure front-end development processes and workflows are in place
- Working with the backend development team to ensure software architecture can support rapid UI development and improvements
- Implementing coding standards and guidelines for HTML5, Sass and JavaScript
- Ensuring coding standards are met
- Mentoring junior developers, giving guidance as appropriate
- Advising on front-end architectures

Jul 2015 - Oct 2015

Front-end Developer

Dewsign

At Dewsign I lead the front-end development of a WordPress build for an exciting financial services startup. I also had the opportunity to implement modern front-end workflows and dev-ops process, including rolling-out the following:

Automation of development workflow:

- Working with the front-end developers to identify potential issues with current build processes
- Set up Gulp.js scripts to automate a number of build tasks including compiling Sass / Javascript, code quality checking using JSHint, image optimisation, and compiling production-ready code.
- Implementing Git processes and assisting developers new to using Git

Design of coding best practices / style guide

- Working with the developers, taking a pragmatic approach, proposing a solution that fits the needs of the business and development team.
- Lead the design of coding best practices / coding style guides (based on Idiomatic CSS).

Design of a modular SASS framework

- This involved working alongside the Managing Director and developers, proposing a solution suitable for the size of the team, size of projects, and skill level of in-house and contractor developers.

Implemented DevOps processes

- Working with the senior developer and product owner to implement DevOps processes using Docker
- Setting up scripts to provision local development environments using Docker
- Writing clear and concise documentation for developers unfamiliar with Docker

Cross-browser testing using browser sync

- Implemented Browser-sync, allowing us to preview our local development environments on a range of devices connected to the studio network.

Oct 2014 - Jul 2015

UX / UI Developer

Headforwards

Working within a team of 7 UI developers. Building a cloud management platform for a world-leading communications organisation, marketed at Fortune 500 companies.

Our team was responsible for working with the various development teams and stakeholders – Particularly product owner, back-end and integrations teams – to ensure the UI was delivered on time and to specification.

I was responsible for developing a range of graphing components and was able to contribute to UI design due to my passion for and knowledge in UX / UI design.

Built a range of modular UI components

- Development within a team of 7 UI developers building a business intelligence dashboard using JavaScript and Backbone.js / Marionette.js frameworks.
- Working closely with the product owner during prototyping phases to ensure UI is inline with client / user expectation.
- Developed front-end templates using HTML5 and Handlebars.
- Use modern tooling such as Bower and Grunt to optimise development workflow.
- Use Git collaboratively within a team of UI / JavaScript developers.
- Worked on the development of a custom maintainable, scalable SASS framework based on object oriented CSS principles.
- Use Vagrant to manage development environment.

Working in a multi-discipline, Agile environment

- Working closely with back-end data team to ensure backend API development is in line with expectation and needs of UI team, for example, ensuring endpoints are available and return data in correct format.
- Implemented graphing components using D3 Javascript library, utilising an InfluxDB backend.
- liaising with the integrations team who were able to provide information about the future state of the Integrations API so that the UI and backend could be developed in tandem.
- Working in an agile environment (SCRUM).
- Contribute to discussion regarding application design and implementation during sprint planning.
- Working in a weekly release environment, giving sprint demonstrations to the product owner at the end of each sprint
- Liaising with QA on a daily basis regarding critical bugs

Code quality and peer review

- Conduct code reviews / peer reviews throughout the development process, ensuring coding standards are met.
- Test-driven development using Karma.js / Chai.js.

UX design / development
- Worked on the interaction design of some key interface components, including form validations and system feedback mechanisms.

Jun 2012 - Sep 2014

Learning Experience Developer

Falmouth University

At Falmouth University, I was responsible for the UX design and development of the online Virtual Learning Environment (VLE).

Designed a responsive Moodle theme

- Working with the Head of Educational technology and stakeholders from around the University including students and course leaders
- Built a responsive HTML5 Moodle theme based on Twitter Bootstrap using Sass and jQuery.
- This theme recently became popular within the Moodle community, with over 30,000 downloads worldwide since February 2014 and was used by the Australian Government.

Developed bespoke learning interfaces
- Used WordPress and Drupal to develop bespoke learning interfaces.

- Used Slim framework to build an API based application that pulls user data from various institutional resources into a user friendly interface (built using Twig template engine).
- Used Twig to create front-end interfaces.
- Used UX processes to help understand and design for users.

Sep 2011 - Jun 2012	**Learning Technologist Intern**
	Falmouth University

Based within the Academy for Innovation and Research (AIR), I worked closely with the Research Technologists in the development of the AIR Portal, a Drupal system designed as a collaborative forum for PhD students.

During this time I designed a Moodle theme for the Falmouth MBA site, which was the first responsive Website design produced by Falmouth University.

Other projects included design and development of the departmental blog (WordPress) and the development of a QR Reader application for iOS (Objective C).

Feb 2011 - 2013	**Freelance Web Developer**
	Self Employed

I have worked on a range of freelance web projects including WordPress / Drupal design and development.

Shaped by US

I developed a series of HTML / CSS templates for Sea Communications as part of the Shaped by Us project.

Volunteering

Code Club

I've previously run a Code Club at my local school. This involved delivery of the Code Club curriculum to 11–12 year olds, which included courses on Scratch, HTML & CSS, JavaScript (using Micro:bit) and Python programming.

Education

Sep 2013 - Sep 2014	**Post Graduate Certificate in Higher Education**
	Falmouth University

This post graduate qualification gave me a thorough understanding of pedagogic principles. This has allowed me to undertake my role at Falmouth with greater purpose, especially with regard to how digital interfaces enable online learning.

Oct 2007 - Jun 2010	**BA Digital Media**
	Falmouth University

Digital Media at Falmouth was an excellent primer for working in the creative sector. Skills learned involved project management, storytelling and interactive product design.

In my final year, I produced an interactive music application built on Max / MSP. This really sparked my curiosity for coding and design, and upon graduation, I began taking on freelance Web design and development projects.

Jul 2006 - Jul 2007	**FdA Computing**
	University of East Anglia

Foundation degree in Computing.