

Ashley Baldock

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Experienced, post-graduate educated Software Engineer seeking an organisation I can join in making a positive difference to the world through technology. I love working with ECMAScript, TypeScript, React, NodeJS, and have a background in the C#/.NET/core ecosystem. I like knowing how things work; software, hardware, people, processes - I believe a holistic approach is a key asset for quality engineering.

Working as part of highly agile development teams at a variety of companies has given me a thorough practical grounding in effective teamwork for software development. I'm passionate about agile development and have a wide breadth of technical knowledge across the application and network stack.

GitHub - github.com/ashleybaldock

Web - morepossibility.com

Software Engineer (Self Employed) - More Possibility (London)

April 2018 - Present

- Freelance work and personal product development
- React, nodejs web/app creation & maintenance
- Familiar with the Jamstack/netlify/git-based deployment and edge CDNs
- Developing networked lighting control software for LED art installations
- React based front end app, custom hardware based around Raspberry pi, nodejs backend
- Embedded programming in C++, on the ESP8266/ESP32 platform via PlatformIO
- Protocol design, including use of multicast, mDNS, UDP and IPv6
- Learning PCB design and Fusion 360 for additive manufacturing (3D printing)

Senior Software Engineer - Rooster Money (Remote)

February 2019 - February 2020

- React based eBanking app development
- Redux state management, Webpack buildchain, TypeScript, Rxjs
- TeamCity configuration and build chain maintenance, experience with Cordova cross-compilation
- Built interactive React components using SVG, HTML and CSS animations
- Development of custom Redux middleware to support event proxying and WebSocket connection
- Set up and maintained a React component library for the team based around npm and Storybook
- Maintenance and extension of legacy backbone/handlebars based app - developed migration plan to bring the app fully into React via a phased integration process
- Mentoring and support for more junior members of the team, particularly around learning React
- Cross device testing on iOS and Android, via simulators and real devices
- Guided decisions around application architecture, provided code review and critical analysis
- Set up and ran an internal React guild to help level up frontend developers within the company

Software Engineer (Freelance/Contract) - Kwerk (Remote)

July 2018 - January 2019

- ReactJS single page app development
- Full-stack development and maintenance, node/express backend. TypeScript & ES6
- Cloud architecture, deployment via CircleCI onto Firebase/AppEngine
- MongoDB backend (cloud hosted), RESTful API implementation
- Google auth integration, configuring analytics/tags, data processing etc.
- Webpack/transpilation pipeline, npm, build setup etc. (including linting and test tools)

Software Engineer (Contract) - Department for Education (London)

December 2017 - March 2018

- Rapid development of beta phase of web application for new teacher recruitment platform
- C# dotnet core, MVC/Razor, Entity Framework core (using migrations)
- Designed Postgres backend, utilising extensions for location/distance search, cloud hosted
- Used progressive enhancement design focusing on full functionality in basic browsers
- Microservices architecture (Openshift, including experience building out environment)

- Implemented view of search results using Google maps API (JS and non-JS)
- Spread knowledge about agile working practices to my team and the wider organisation

Software Engineer (Contract) - Cambridge Intelligence (Cambridge)

April 2017 - August 2017

- JavaScript graph data visualisation product, KeyLines
- Working on adding new features to core product, including 'combos' - grouping graph nodes
- Producing and fixing product demos (including work with React and Neo4j database)
- Work on core SDK site (node/express.js web application)
- Exposure to a wide variety of JavaScript-related technologies, including ES6
- Working on WebGL and Canvas rendering engines
- Also implemented improvements to build/deployment process, including:
 - Switch to using Docker (with EC2/lambdaCI) for deployment
 - Automated linting (eslint) and test coverage (mochajs/Chai)
- Improving MongoDB integration, including upgrade from legacy version of mongo-connect

Career break

February 2016 - March 2017

- I took a year out from full-time work to travel and invest time in my open source projects

Software Engineer - Redgate (Cambridge)

April 2015 - January 2016

- Working as part of the team tasked with resurrecting SQL Monitor for its' v.5 release
- This included extensive bug fixing (including security issues), development of two entirely new features, implementation of a new build process and rapid release cycle and of a new testing approach - all within the context of a poorly documented legacy application
- Using NUnit, Resharper, nCrunch as part of TDD lifecycle where appropriate during development.
- In the technical lead role for our team I guided decisions around development and automated testing process as well as overall agile methodology (SCRUM/XP/KanBan)
- Participated in code katas and internal hackathon type events. Presented frequently at internal knowledge-sharing presentations (especially on topics like TDD and unit testing)

Software Engineer - 1E (London)

June 2012 - March 2015

- Working on an agile team developing software using C# .NET, C++ and JavaScript/AJAX
- Extensively used Visual Studio with ReSharper, Vim, NuGet, TeamCity, Git
- Learnt, used and improved skills with pair programming, code review, CI/CD, TDD, IoC/DI
- Advocated for test-driven development and gained experience with NUnit, NSubstitute, Fluent Assertions, Moq, SpecFlow & PowerShell (for automated acceptance/integration testing)
- Previously I had worked on a data visualisation application for Nomad (WAN optimisation and file distribution application) using D3.js, jQuery, SignalR (WebSocket RPC) and WCF/COM

MSc Computer Science - Birkbeck College, University of London

2011 - 2013

- Studying part time I attained my MSc while working full time at 1E as a Software Engineer

Development Support Engineer - 1E (London)

March 2010 - May 2012

- Sole responsibility for development and QA infrastructure supporting a team of 90 people
- Maintained Windows cluster, Hyper-V hosts, test labs, TeamCity CI system, SVN/Git etc.

Product Support Engineer - 1E (London)

November 2008 - Feb 2010

BA Philosophy - Kings College, University of London

2004 - 2008