



Dominic Barker

software engineer

I am highly competent and versatile developer. I have commercial experience with a very wide range of technologies and platforms including n-tier web applications, native and HTML5 mobile apps and Computer Aided Design desktop software. I strive to solve problems by creating clean, maintainable and testable solutions.

I have worked across several economic sectors including travel, property, law, pharma, civil engineering and retail.

Working with the technologies best suited to the task at hand is something I enjoy and as such don't have any particular preference to any given technology stack.

I practice Agile and BDD. I believe that there is no such thing as defective code, only inadequate test coverage.

Skills

- ∞ Problem Solving
- ∞ Analysis
- ∞ Communication
- ∞ Software Architecture
- ∞ Object Oriented Design
- ∞ Programming
- ∞ BDD / TDD
- ∞ Domain Driven Design
- ∞ Technical Writing
- ∞ Web Development
- ∞ Mobile Development
- ∞ Source Control
- ∞ Project Management
- ∞ Leadership
- ∞ Agile

Technologies

- ∞ Ruby
- ∞ Ruby on Rails
- ∞ Resque
- ∞ Rspec
- ∞ Cucumber
- ∞ Selenium
- ∞ Capybara
- ∞ Phantomjs
- ∞ PostgreSQL
- ∞ MongoDB
- ∞ Redis
- ∞ Javascript
- ∞ CoffeeScript
- ∞ Jasmine
- ∞ Sinon
- ∞ Underscore
- ∞ Backbone.js
- ∞ Knockout.js
- ∞ jQuery
- ∞ HTML5
- ∞ JMVC
- ∞ Karma
- ∞ Requirejs
- ∞ Grunt
- ∞ Bower
- ∞ Heroku
- ∞ Node.js
- ∞ Express
- ∞ Mocha
- ∞ SuperTest
- ∞ CSS
- ∞ SASS
- ∞ LESS
- ∞ Linux
- ∞ OSX
- ∞ Phonegap
- ∞ ASP MVC
- ∞ SQL Server
- ∞ NHibernate
- ∞ NUnit

Experience

Lead Engineer

OpenXO

July 2013 - Present

OpenXO is a very early stage startup allowing brands to monetise their wifi networks and extend their consumer engagement. I was brought on to get the Front End team up and running. As well as defining the application architecture I made decisions regarding the technology stack and recruited a team. The solution is a polyglot application composed of numerous components including a NodeJS middleware layer (in front of a go-lang platform) responsible for asynchronous data aggregation and caching (with REDIS) as well as providing a RESTish service for a Backbone.js HTML5 client. There are also Ruby On Rails admin applications.

The Backbone.js client has a UI comparable to windows 8's live tiles, and is fully internationalised and was built using mobile first responsive techniques with the aid of the Susy grid framework for Compass.

The Node.js application is hosted on Heroku and deployed through a CI service provided by Travis.

The technologies used include Node.js, REDIS, BackboneJS, Express, Mocha, Sinon, Chai, Jasmine, Jasmine.async, testr, Karma, Grunt, Bower, Ruby, Ruby on Rails, RSpec, MongoDB, PostgreSQL, Cucumber, SASS and Compass.

Senior Developer **Unomee** **April 2012 - July 2013**

At Unomee I led the development of a Ruby on Rails project making use of PostgreSQL, Cucumber, RSpec and Heroku. I also helped out on other projects, tuning production applications, creating a site scraper in Node.js and upgrading older code bases to newer versions of Rails.

I led the development of a Google Docs style Document editor with Backbone.js, Require, Jasmine, Grunt, Bower and Cucumber.

I architected a real time price analysis tool for an Airline. My design specified the use of CQRS, ASP MVC Web API, RavenDB and Backbone.js.

I mentored junior staff and ran lunchtime tutorial sessions on a range of topics such as switching from .NET to Ruby and modern front end development.

Developer **Earthware** **October 2010 - April 2010**

Earthware specialises in interactive mapping solutions. I maintained existing applications for clients such as the Financial Times and leading commercial property portal NovaLoca. As well as extending portions of the Bing Maps admin console for Microsoft.

I created mapping solutions for the NHS, plotting patient data across the geographic boundaries of NHS Trusts.

The server side stack was .NET and client side development was in Silverlight or Javascript using both Google Maps and Bing Maps API's. Applications with large amounts of Javascript were written with Knockout.js or JavascriptMVC.

Developer **The Technology Studio** **Oct 2010 - April 2012**

The Technology Studio is Earthware's sister brand with a more general focus on Web and Mobile development.

It's flagship product is MiThoughts, an iPad app to enable two way communication between a presenter and their audience. It consisted of a WPF desktop application for converting Powerpoint files or creating new presentations, a MonoTouch iPad app, and a web application for processing the data created during presentations. I was involved mainly with the iPad app and the data processor.

I also helped create and maintain a number of websites using ASP MVC and ASP.NET, numerous HTML5 / Javascript mobile applications that were packaged with Phonegap and some native iOS applications.

CAD Manager / Developer **Atkins** **April 2008-April 2010**

Atkins is a vast Civil Engineering consultancy, the largest in Europe. I managed a team of technicians, designers and analysts as well as writing software that was used to create designs for large infrastructure projects such as the London 2012 Olympic Games.

The software I wrote enabled CAD users to create drawings that conformed to required standards easily and simplified the creation of complex geometries. I also created utilities to analyse and audit existing drawing files in order to isolate examples of bad practice and reduce excessive storage demands.

Developer

Transport for London

April 2007 - April 2008

I developed a system to convert AutoCAD drawings into data suitable for use by a Java application that would display information on a website and Liaised with GIS professionals, software developers and civil engineers to create the best possible solution.

I created a drafting specification for external consultants to work to, covering visual styles and CAD methodologies as well as software that enabled consultants to draw to the required specification with minimal errors.

I also built software in that converted data from TfL's asset management database into AutoCAD drawings as well as extending the functionality of AutoCAD MAP 3D software to make better use of object data.

Technician

AECOM

July 2004 - October 2005

Created detailed and preliminary design drawings of road junctions, roundabouts and traffic signal arrangements.

Prepared topographical survey quotation requests and processed the returned data into base mapping suitable for design.

Drew graphics for consultation leaflets.

Prepared drawings and diagrams for the Centre of Cycling Excellence - now used as TfL's design standards.