David Morrissey

Profile

▸ Full stack developer, experienced building APIs, websites and mobile apps from conception to production.

▸ Architect and lead developer for several successful projects. Experienced with greenfield and established projects.

▸ Passionate but pragmatic about beautiful, well-tested code.

▸ Talented and tenacious troubleshooter and problem solver.

▸ Always keen to share knowledge and learn from teammates, and try modern languages and frameworks.

▸ I enjoy working closely with test, ops, marketing and support teams.

Technology

I am a full stack developer and architect with a focus on Java server side development, and specialise in REST API design and integration. I have built native and hybrid Android and iOS apps and have strong front end coding skills, with an eye for design and UX. I have experience configuring and deploying to Linux environments and platform as a service providers.

Server Side

▸ Java, JEE, Spring, JSP, JSTL

▸ JPA, Hibernate, JDBC, SQL

▸ Node.js, Express (MEAN)

▸ PHP, Laravel (LAMP)

▸ Ruby, Sinatra

Web & Mobile

▸ HTML5, CSS, ES5, ES6, TypeScript

▸ Angular 1, Angular 2, React, jQuery, D3

▸ NPM, Gulp, Bower

▸ Native Android

▸ Cordova for Android and iOS

Build & Test

▸ Gradle, Maven, Ant

▸ GitHub, Bitbucket, GitLab

▸ Jenkins, CircleCI, Bamboo

▸ JUnit, JMeter, Mockito, Hamcrest

▸ Jasmine, Cucumber, Selenium

Deployment

▸ AWS, AppEngine, Heroku, Linode, Chef

▸ Tomcat, Jetty, Apache, NGINX

▸ MySQL, SQL Server, PostgreSQL

▸ MongoDB, CouchDB, ElasticSearch, Lucene

▸ RabbitMQ, ActiveMQ, Hazelcast

Work History

- **BoatRemote (Personal Project)**   Mar 2017 - Present

BoatRemote is a personal project started with a former colleague. We are building a connected boat device, featuring GPS tracking, telemetry, alerts and remote control of equipment. I have implemented the backend REST APIs, encrypted communication protocol, and Angular 4 front end. Cordova is used to wrap the webapp for Android and iOS, with added Bluetooth functionality.

- **Principal Software Engineer** at **Screen Time Labs**   Nov 2015 - Mar 2017

Screen Time helps parents monitor and limit their kids' use of phones and tablets. As a multi-discipline full stack developer I worked on new features and enhancements in the Java backend services and REST APIs, web application, internal tools, and hybrid native/Cordova client apps for Android and iOS.

  ○ Added support for logging in with email address and password, alongside the existing Google and Facebook authentication.

  ○ Improved Stripe integration and added support for subscription payments using PayPal and iTunes.

  ○ Ported the Android parent's remote app over to iOS using Cordova. Integrated Firebase and Fabric analytics in both platforms.

  ○ Improved and redesigned internal customer support tools and dashboards. Made various performance and efficiency improvements to reduce hosting costs by 50%.

- **Consultant Integrations Architect** at **Brightpearl**   Jan 2015 - Nov 2015

I was invited back to Brightpearl as an architect. My role involved designing and building extensions to the core platform, and supporting partner developers to do the same. I also lead a small internal team of developers and testers, and assisted other teams with the architecture of their projects.

  - Supervised and assisted with the development of an Authorize.net payment processing app. I worked closely with the third party developer, then took over the project, and prepared it for internal deployment.
  - Developed two add-on apps for the Brightpearl platform - an integration with Alibaba Wholesale for streamlined product sourcing, and a shipping costs calculator.
  - Restructured microservices to a standardised pattern that allowed REST calls which previously involved several hops between microservices to be executed transactionally within a single service.
  - Trained and supported a new offshore team as they developed an integration with Mailchimp.
  - Extended API authentication to support new Magento integration and an OAuth-style app installation flow.

- **Tech Lead** at **Obrussa**   Oct 2014 - Dec 2014

I joined this new startup as the first permanent employee. I worked to establish good development practices, prepare a prototype for trial, deploy the prototype on cloud hosting, and plan the architecture of the first public release.

- **Freelancing**   June 2014 - Sep 2014

Following the end of my Brightpearl contract in 2014 I took a break to look for a senior permanent position, and used the opportunity to learn new skills working on freelance and personal projects.

  - **Sundroid**

    An Android app that calculates a range of astronomical information including sunrise and sunset times, useful for photography and outdoor activities. Android's most popular sun calculator with over 450,000 downloads.

  - **Litepearl**

    An Android app for Brightpearl customers that provides mobile and offline access to a variety of account data including products, contacts and orders.

  - **Pinpoint Works**

    An issue tracking solution for use on construction, maintenance and restoration projects. I built an accompanying Android application to view and create defects and upload annotated photos, designed the web user interface, and worked with a team of two others to build the website and REST APIs.

- **Consultant** at **Brightpearl**   Jan 2013 - May 2014

Brightpearl is a multichannel retail management SaaS product for small to medium businesses. I worked on the eBay integration and a variety of changes to the architecture for improved reliability and performance. My role included mentoring junior team members, leading design reviews, and maintaining and improving the continuous integration and release processes using Jenkins, Maven plugins and Artifactory.

  - Architected and implemented a new security model for the Java REST API, allowing individual control of registered developers and their applications by Brightpearl and customers. Developed the registration and app submission site for developers and administration site for Brightpearl, using Laravel backed by REST APIs written in Java.
  - Led development of a bulk product import and eBay listing publisher tool. Built as an AngularJS and Bootstrap site on top of a Spring MVC application running in Jetty. Highly concurrent for maximum performance.

- **Consultant** at **Nokia Music**   May 2012 - Dec 2012

My work for Nokia primarily involved building and extending services in the Nokia Music REST API platform, and integrating these services with each other. In addition I made performance, reliability, maintenance and monitoring improvements to some of the existing services, and extended the functionality of content catalogue ingestion tools.

- **Consultant** at **Deutsche Telekom**   Aug 2008 - May 2012

My team completed a variety of projects, including high traffic websites for mobile phones, services to support personalised content delivery, and browser based business systems.

  - Built a web application used to manage a device and browser attributes database that controls rendering of websites across a wide range of mobile devices. Uses JQuery to enable inline editing similar to a Google Docs spreadsheet.
  - Architected and led development of a web based highly concurrent financial application for rating, settlement and reporting of content sales including music, videos, and mobile apps. Built with Spring, Hibernate, JSP and JSTL. Handles millions of transactions daily, and generates over one hundred reports in different formats for each third party.

- **Consultant** at **T-Systems**   Jan 2008 - Jun 2008

T-Systems provides bespoke software solutions for a variety of large corporate and public sector clients. My work involved development of intranets based on the Day Communiqué CMS for DaimlerChrysler and Volkswagen UK. This contract required me to quickly become confident with an unfamiliar set of languages and frameworks.

- **Senior Developer** at **Centennial Software**   Oct 2005 - Jan 2008

Centennial develops IT asset management and endpoint security solutions. I worked on the full lifecycle of boxed products, including planning, documentation, code development, unit testing, build processes and installation. For two projects I was lead developer and responsible for a small team. Both projects were successfully delivered on time.

  - Full lifecycle of a new budget software audit product. As lead developer, I produced documentation and specifications, managed the development team, and built the J2EE web application component.
  - Planning, use cases, schema design, core business logic and user interface development for a new software licence management product. I also implemented a flexible modular build and unit testing system using Ant, JUnit and batch scripts, and managed development of the installer.

- **Web Developer** at **GCap Media**   Jun 2001 - Sep 2005

My team developed websites and business systems for GCap Media's DAB Digital Radio stations, and 32 local stations. I played a key role in the planning, design, development, deployment and support of many projects.

Other Projects

Subsampling Scale Image View

Designed to solve the problem of displaying large images on Android devices with limited memory, this open-sourced library supports zoom and pan gestures, and a variety of extra features such as animation and easy extension with additional overlays aligned with the image.

Sunrise Sunset Map

Sunrise and sunset calculator based on Google Maps, allows one click lookup of sun and moon times for any location. Uses Google's APIs to look up location names and time zones.