

Personal details

Name: David Roy Edgar

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Summary

I'm a **software and web developer** with **15 years industry experience**.

My expertise spans the spectrum of development, from **front-end** JavaScript & HTML5, **server-side** web development in PHP, **networking and audio-video technologies** in Java, C++ and C#, down to **real-time embedded C**.

I take pride in applying my **eye for detail** to architecture, debugging and documentation, and I have a conscientious approach to creating software which **fulfils the needs of the end-user**.

I enjoy taking central roles in teams with **agile workflows**, and I also gain satisfaction from working with people in non-engineering positions, using my **excellent communication skills** to bridge the technical – non-technical gap.

Experience

Freelance

Web developer

2015 – present

At the same time as my freelance software activities, I've also been working with several non-profit organisations, and on some of my own projects.

PHP, JavaScript, WordPress, SQL, HTML, CSS, Less

Tesitoo

Web and mobile commerce platform to connect rural farmers to urban buyers in the Gambia

Server developer

2015 – present

- As **principal server-side developer**, I've been responsible for developing the OpenCart-based website and **designing and implementing a REST API** for the vendor app.
- Additional roles have included **coaching junior engineers** remotely, **setting up automated testing** using selenium, and testing the website, API, and Android app.
- I've **defined project needs and user requirements** in collaboration with all other team members and have frequently provided technical direction.

PHP, SQL, REST, git, selenium, Google Compute Engine (Google Cloud), Apache, JavaScript, python, SSL

MCAI

Maternal healthcare charity

Honorary web consultant

2015 – present

- **Implemented a bespoke low-bandwidth website** to provide essential textbooks to medical staff in poorly networked locations.
- I set up a mobile database to log medical operations in the field.
- **Consultant to non-technical staff** on a wide variety of technical matters.

PHP, HTML5, CSS, JavaScript, Android

Career break

2013 – 2014

Travelling round the world and hiking.

Sony

Techsoft Centre (formerly SDCE then NSCE), Zaventem, Belgium - consumer electronics product software department

Senior Software Engineer

2008 – 2013

- Part of an agile team which **developed the MusicUnlimited music streaming clients** for Android, Windows 8 and PSP platforms.
- Built and extended a library for TCP hole punching (NAT traversal) for peer-to-peer systems.
- Responsible for **developing jquery / HTML5 user interfaces** for visualisation and management of home energy storage, monitoring and user control systems.

Java, Android, C++, .NET, C#, VisualStudio, git

C++, TCP/IP, subversion (svn)

JavaScript, jquery, HTML5, CSS, Python, Jenkins, ActionScript, AJAX, agile

Software Engineer

2001 – 2008

- **Designed a messaging system protocol** (over a wireless RTSP/RTP/HTTP connection) for the LocationFree TV device and implemented it on an embedded VxWorks platform. LocationFree was available to consumers across the world. I had a major role in further development and maintenance for many versions over a number of years.
- **Responsible for the design of a data transport component** of an LPR/LPD-compatible TCP-based protocol for transferring printing data over a wireless connection and its C/C++ **implementation on the VxWorks real-time OS** for both client and server devices of the Airboard wireless TV.
- Developed an XMPP instant messaging client in Java to run on an embedded platform.

C, C++, VxWorks, RTP, RTSP, HTTP, UML

C, C++, VxWorks, TCP, ClearCase

Java, XMPP, Jabber, SOAP, XML

Quidnunc

Medium sized e-commerce consultancy in London

Software Developer

2000 – 2001

- Web development, server-side Java on the ATG Dynamo platform.

Java, HTML, CSS

BAE Systems

Aerospace manufacturer (formerly GEC Marconi), Basildon

Trainee Software Engineer (undergraduate sandwich year)

1998 – 1999

- VBScript support for management planning and monitoring processes.
- Developed C++ application & middleware for PC control of a CNC milling machine.
- Mathcad modelling for GPS systems.

C++, Visual Basic, VBA, Mathcad

Education

The University of Manchester

1996 – 2000

BSc (Hons), Computer Science with Industrial Experience, 1st Class

Along with studying a wide range of subject areas across the discipline, I learnt C and Java.

For my final year project, I developed two mapping applications to connect a Psion 5 PDA to a Garmin GPS unit. I implemented several GPS serial protocols in C on the EPOC OS, with geographic coordinate transformations, graphics and a GUI front end.

Beaumont School, St Albans

1989 – 1996

- **4 A-Levels:** Pure Maths, Applied Maths (Mechanics), Physics & Chemistry
- **10 GCSEs:** all A*-C, including Maths, English & Science

References

References available on request.