

Stephen Hall

oclipa.github.io

SYNOPSIS

15+ years of commercial software development, of which 10+ years at a senior level.

Experience of full application lifecycle management on multiple projects, utilizing a variety of languages and encompassing web, desktop, client/server and cloud solutions on both Linux and Windows.

EDUCATION

UNIVERSITY OF BRIGHTON

MSc Internet Application Development

2004 | Brighton, UK

UNIVERSITY OF NEWCASTLE

MSc Geophysics with Planetary Physics

1995 | Newcastle, UK

UNIVERSITY OF BIRMINGHAM

BSc Physics with Astrophysics

1994 | Birmingham, UK

SKILLS

PROGRAMMING

C# • Java • Python • Javascript • HTML • CSS • C++ • CLR • PHP • Perl • Shell • MySQL • Typescript • Angular • React • NodeJS • Docker • WPF • scikit-learn • Jupyter Notebook • Fortran • SOAP • WSDL • \LaTeX

TOOLS

Unity • Visual Studio • Team Foundation Server • Git • Google Cloud • NUnit • dotTrace • dotMemory

OPERATING SYSTEMS

Windows • Linux • macOS

LINKS

LinkedIn:// stephendavidhall

HOBBIES

Game Development • Photography • Running • Romanian

EXPERIENCE

SCHLUMBERGER | SENIOR SOFTWARE ENGINEER I & II

2004 - 2017 | Gatwick, UK | Tunis, Tunisia | Bucharest, Romania

Roles:

- **Project lead** - I was the project lead for the OmegaConnect plugin (>100,000 lines of code). I was both primary developer and guide for the architectural design. I also managed contributions from cross-disciplinary teams. During the 6+ years in this role, I ensured the project achieved all Quality Release Criteria at every checkpoint.
- **Cloud application developer** - My most recent project involved the development of a Google Cloud-based data transfer infrastructure to support the transition of the company's processing software into the cloud. Initially this required a system of Java UIs and Python daemons interacting with pub/sub to move data into and out of cloud data storage. Further work involved the development of an Angular front end, to improve user interaction with the system.
- **C# application developer** - I successfully developed the OmegaConnect Petrel plugin to enable interoperability between the Omega and Petrel seismic processing systems (SPS). Largely C#-based, this also required development of a C++/CLR wrapper layer to make full use of Omega's backend. The main challenge, which was achieved, was providing performant access and display of TB-scale pre-stack seismic data while maintaining usability.
- **Java application developer** - As part of the Omega Infrastructure team I developed components for the Java-based Omega SPS and was instrumental in the port of the Linux-based software to Windows. In addition to Java, I also supported C++ and Fortran portions of the backend.
- **Web application developer** - I created popular web applications to aid users of the Omega SPS. Applications were implemented using JSP, Javascript, XHTML, PHP and Perl. The primary goals were project status tracking and querying the Oracle backend and Linux filesystems.
- **Requirements analyst** - I performed regular requirement gathering exercises in close coordination with Subject Matter Experts. These included eliciting requirements, analysing the cost/benefit and capturing the requirements using appropriate tools (latterly, TFS). In addition, I tracked the status of requirements and planned project timetables to ensure targets were met on a timely basis.
- **Flexible worker** - Coordinating projects with geographically diverse, cross-disciplinary teams, while at the same time meeting challenging deadlines, required pro-active communication and a flexible approach to time management.

SCHLUMBERGER | JUNIOR TO SENIOR GEOPHYSICIST

1996 - 2003 | London, UK | Gatwick, UK

(Initially with Western Geophysical, which was acquired by Schlumberger in 2000)

Roles:

- **Web Champion** - I successfully worked to promote web usage within the UK seismic processing department via presentations and the production of online tools to aid adoption.
- **Web application developer** - I produced small, but widely used, web applications (HTML, javascript, CGI, Shell, Perl) to aid knowledge transfer and support practices such as peer review.
- **Seismic data processor** - I processed data from marine seismic surveys for oil and gas, initially using the IBM MVS/XA-based IQueue SPS, but later using the Linux-based Omega package. My primary task was to determine the best parameterisation for the algorithms used to process data. This required analysis of previous stages and interaction with clients such as Shell and BP.