

Stephen Hall

sdhpfa.com

SYNOPSIS

18+ years of commercial software development, the majority of which at a senior level.

8+ years dedicated to predominantly C#-based projects.

Experience of full application lifecycle on multiple projects, utilising 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

Multiple Projects:

C# • Java • C++ • C++/CLI • SQL • Powershell
• Python • Javascript • HTML • CSS • PHP • Perl • Shell • Fortran

Small Projects/Courses:

• React • Angular • Typescript • WPF • SOAP
• WSDL • L^AT_EX

TOOLS

Visual Studio • Visual Studio Code • Microsoft Azure • Git • Docker • Kubernetes • Helm • Terraform • Google Cloud • Azure Bot Framework • Web API • Service Bus/Pub-Sub • NodeJS • NUnit • dotTrace • dotMemory • Unity • Postman

OPERATING SYSTEMS

Windows • Linux • macOS

LINKS

LinkedIn:// [stephendavidhall](#)
Portfolio:// [sdhpfa.com](#)

EXPERIENCE

IVANTI | STAFF SOFTWARE ENGINEER

2020 - Present | Bucharest, Romania

Roles:

- **C# microservices developer** - As a member of the Automation team my primary role is to develop the microservices that support Ivanti's infrastructure and workspace management tools. The main goals are to develop decoupled, sustainable and unit-tested code, with a focus on simplicity over complexity. Of particular note have been projects to port code from .NET 4.7 to .NET 6, and to develop a chat bot service to aid end-user interaction. In addition, I have been instrumental in the effort to deploy our services to an Azure Kubernetes Service.
- **Agile developer** - Using agile practices, such as scrum-sprint, backlog grooming, retrospection and code review, is a crucial part of the success of project, helping me to produce robust code, and to develop and maintain relationships with my remotely-based colleagues.
- **DevOps engineer** - A feature of Ivanti team practices is full-stack ownership of the solutions. This means that I am closely involved in all aspects of the development process, from source code management and pipeline maintenance, through testing and monitoring, to containerization and deployment.

SCHLUMBERGER | CONTRACT CONSULTANT AND DEVELOPER

Sep 2019 - Apr 2020 | Bucharest, Romania

Roles:

- **Quality analysis & improvement** - I was contracted on a 6 month basis to support a team in their goal to meet a crucial deadline and address some software stability issues. Recognition of my expertise with the technology stack (mainly C#, Windows Azure, Google Cloud) meant that I was ideally suited to be parachuted into the project and quickly take up an active role. During this period I resolved the majority of the significant outstanding issues and, at the end of my contract, the project was back on-course to meet its Quality Release Criteria.
- **Feature development** - In addition to addressing quality issues, I also implemented a significant cloud data access feature required for the next release. This built on similar work I had performed in the past related to data transfer in and out of the cloud data storage infrastructure.
- **Mentoring** - To avoid future issues I helped my colleagues adopt a more robust code review system and gain a clearer understanding of how the software architecture can be used to reduce stability issues.
- **Flexible worker** - During my period on this project I worked remotely with colleagues located around the globe (from Houston to Bangalore). As in my previous roles, this required a proactive and flexible approach to time management, with recognition that good and timely communication between team members greatly improves software quality. One of the advantages that I have long enjoyed when working for a multinational company is the flexibility and diversity that comes from teams spread across multiple time-zones.

SCHLUMBERGER | SENIOR SOFTWARE ENGINEER I & II

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

Roles:

- **C# application developer** - I successfully developed the OmegaConnect 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.
- **Project lead** - I was the project lead for the OmegaConnect Petrel plugin. As both primary developer and guide for the architectural design, I 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.
- **Java application developer** - As part of the Omega Infrastructure team, I also 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.
- **Cloud application developer** - My final project at Schlumberger 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 frontend to improve user interaction.
- **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 experts. These included eliciting requirements, analysing their cost/benefit and capturing them 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.