

David Segonds
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SUMMARY

Software Development Manager with 17 years experience in scientific desktop application development for the Oil and Gas industry. Leverages proven experiences in software engineering and leadership to assist organizations in developing innovative solutions to deliver value to customers and meet market requirements.

Sees career as creating cosmos out of chaotic processes and interactions, which are inevitable components in a multicultural and intercontinental software development environment. As a leader, constantly seeks creative ways to foster a dynamic work environment through an ideal mix of people, process and technology skills. As a developer, thrived to combine different tools and technologies to create value for customers.

Prior to consulting for Shell, and for fourteen years, heavily committed, as an undergraduate student, a software engineer, and finally a team leader, to the success of the GOCAD project, an Oil and Gas 3D subsurface modeling application. Graduate of Institut National Polytechnique de Lorraine in Nancy, France, holds a PhD in Geosciences.

ACCOMPLISHMENTS

Build Manager (March 2010 to Present)

Shell International Exploration and Production, Houston, Texas, USA

- Led development group composed of team leaders, developers, and build engineer (approximately 40 individuals) to plan, develop, stabilize, and release Shell proprietary interpretation system.
- Engaged contractors to augment group capabilities.
- In concert with leadership team, promoted continuous improvement culture to enable development best practices, minimize rework, and lower technical debt.
- Participated in initial requirement gathering and scoping for Shell future Interpretation technology.

Product Development Manager (July 2008 to January 2010)

Geomodeling Technology Corporation, Calgary, Alberta, Canada

- Initiated and implemented Scrum (an Agile methodology) for the whole R&D organization (Calgary and Beijing).
- Initiated and managed Continuous Integration activities.
- Led R&D Department consisting of developers, testers, technical writers, and SCM engineer (up to 30 individuals).
- Supervised complete Software Development Life Cycles for multiple products.

Development Team Lead (July 2005 to June 2008)

Paradigm (purchased Earth Decision Sciences), Houston, Texas, USA

- Managed Houston GOCAD maintenance team of up to eight developers. GOCAD is a 3D geological modeling application in the Oil and Gas industry. Core module is over one million lines of Object Oriented C++ cross platform code with over 4,000 classes and a Qt User Interface. The product line contains over thirty modules.
- Provided technical guidance to developers.
- Conducted code reviews.
- Led the design and implementation of software engineering processes.
- As hiring manager for the GOCAD line of products, screened, hired, and trained new developers.
- Led development project aimed at improving GOCAD persistence layer while preparing for a database back-end implementation.

Continued

IT Management (October 2003 to July 2005)

Earth Decision Sciences (formerly T-Surf), Houston, Texas, USA

- Led Earth Decision Sciences IT Department for all eight worldwide locations.
- Managed around 200 workstations, 20 servers, and eight sites worldwide with an annual budget of over \$800,000, and led a team of four system administrators.
- Responsible for the design, implementation, growth and maintenance of the entire Earth Decision Science network.
- Recommended and directed implementation of critical applications, including corporate web site, CRM system, and customer support application, licensing SQL database, collaborative knowledge base tool (wiki), and electronic mail.
- Hired, and trained system administrators.
- Contracted and managed consultants for various IT projects.
- Managed software and hardware vendors relationships.

Senior Software Engineer (January 1999 to October 2003)

T-Surf, Houston, Texas, USA

- Implemented notion of dead cells in GOCAD grid based objects.
- Improved performance and robustness of the proprietary binary persistence layer.
- Trained customers at home and abroad on the company Software Development Kit.
- Designed and implemented an original application and process to safely synchronize CVS repositories between offices overseas. This application reduced our source code repository transfer cycle time by a factor of ten.

PhD Candidate (January 1996 to December 1998)

Institut Français du Pétrole, Paris, France

- Developed methods and algorithms for the 3D Geomodeling software GOCAD.

Researcher (September 1994 to December 1995)

Elf Geosciences Research Center, London, United Kingdom

- Researched 3D Geological Modeling methodologies for GOCAD and implemented supporting algorithms such as Triangulated Surface Decimation.

EDUCATION

Institut National Polytechnique de Lorraine, Nancy, France (January 1996 to December 1999)

PhD in Geosciences

École Nationale Supérieure de Géologie, Nancy, France (September 1992 to June 1994)

Master Degree in Geology, with a minor in Computer Science

KEYWORDS

Scrum, Agile Methodology, Stage Delivery, Phase Gate, Software Development Life Cycle, SDLC, C++, OOP, Source Control, Software Configuration Management, SCM, Qt, CVS, Perforce, Visual Studio, Defect Tracking, Windows, Linux, GOCAD, Perl, Python, Java, MySQL, Data Modeling.

PUBLICATIONS

- SEGONDS David, DUBRULE Olivier, BIRRELL S., *From seismic interpretation to 3D earth model*, EAEG'96 Technical Program, 1996.
- DUBRULE Olivier, BASIRE Christophe, BOMBARDE Sébastien, SAMSON Philippe, SEGONDS David and WONHAM J., *Reservoir Geology Using 3-D Modelling Tools*, SPE, 1997, SPE 38659.
- SEGONDS David, MALLET Jean-Laurent and LÉVY Bruno, *Smooth triangulated surfaces: G1 continuity for ray-tracing*, SEG'97 Technical Program, 1997, vol. 2., ST 10.4, p. 1719-1722.
- SEGONDS David, BENNIS Chakib and MALLET Jean-Laurent, *3-D Structural modeling: a new approach to interactively modify complex surface*, SEG'98 Technical Program, 1998.
- SEGONDS, David, BENNIS and MALLET Jean-Laurent, *A New Way To Interactively Modify Complex Interfaces Modeled Using Triangulated Meshes*, AAPG Annual Convention Technical Program, 1999

PROFESSIONAL ASSOCIATIONS

Member of IEEE, IEEE Computer Society, and Society of Exploration Geophysicists

ADDITIONAL INFORMATION

- US citizen
- Fluent in French