Alberto Cuesta Cañada

LinkedIn: https://www.linkedin.com/in/albertocuesta/
GitHub: https://github.com/albertocuestacanada/
Email: mail@albertocuesta.es
Tlf: +351 918 681 458
Lisbon, Portugal

Profile

I'm a High Performance Computing specialist and Solutions Architect with more than 10 years of experience in the financial industry, during which I've led the design of complex solutions involving multiple applications and with project budgets in excess of $10m.

I believe in putting the business principles at the centre of my job, and adding enthusiasm, integrity and reliability to produce the best possible experience for the customer.

I have a genuine interest in both technology and people, and I enjoy distilling technology and business ideas so that they can be understood and adopted by wider audiences. I create lasting and productive relationships with all stakeholders. I lead with humility, to allow team members to perform at their best.

I have a deep understanding of scalable and high performance architectures within premises and on the cloud. I am comfortable using and designing architecture patterns, principles and requirements.

Available immediately.

Work Experience

Travelling
Australia, Mauritius, South Africa, Turkey

September 2017 – March 2018

Solutions Architect
ANZ, Melbourne, Australia

September 2014 – September 2017

- Engaged and built strong relationships with senior stakeholders in the business to understand their business goals and communicate them to technical audiences.
- Defined the integration architecture for projects involving more than 20+ solutions. I further defined how the various existing solutions would be modified, what new applications would be deployed and how they would integrate together in order to deliver the desired business outcome. Led project teams of 20+ experts, designers and analysts.
- Provided solution architecture consultancy support to key stakeholders within the business and led the development and discussion or solution options to be implemented.
- Acted as an expert for distributed and high performance systems such as Microsoft HPC and Splunk, providing specific advice and architectural designs.
- Championed the ANZ Enterprise Architecture Framework and Divisional Architecture Roadmaps among technical and business stakeholders.
- Researched the capabilities of third party solutions and led external consultants to integrate them into the company systems.
- Participated in the development and ongoing operation of the ANZ Solution Architecture capability, such as technical and design standards, processes and governance.

Grid Architect

May 2012 – September 2014

ANZ, Melbourne, Australia

- Managed the growth of HPC technology space in ANZ to a multi-regional architecture with a compute capacity increase of 10x.
- Designed the HPC and QuIC components for the Counterparty Credit Risk Pre-Deal Check application, calculating trade exposures in real-time through the use of HPC grid, Markit Analytics QARM orchestration, AppFabric data caching and IBM MQ messaging.
- Designed the HPC component for the FXO Flex application, including infrastructure sharing, high availability at all layers, and support model. Managed the release of FXO Flex into the testing environments and the acquisition of of hardware.
- Developed the support model for HPC applications at ANZ, creating a high quality support team with a great record of issue resolution and a great relationship with application teams.
- Developed a C# HPC Framework to enable the migration of non-parallel applications to a grid-parallel batch model.
- Redesigned the security architecture around HPC Clusters in Active Directory to enable the implementation of a shared tenancy model.

Senior HPC Consultant

October 2010 – November 2011

Excelian Ltd., London, UK

- **Grid Engineer at Unicredit**. Created a 4000 core cluster on Symphony 5.1 for an application that needed a 100x speedup. Provided development guidance and testing for the migration of the application from Symphony 4.1.
- **Grid Support Manager at Prudential**. Managed the transition from development to production of the MS HPC 2008 Prudential grid. Created the 24/7 grid support processes.
- **Grid Architect at Aegon**. Designed and built the MS HPC 2008 Aegon Netherlands and United Kingdom grids, and trained the Aegon staff for their maintenance.
- **Grid Technical Manager at Rabobank**. Assessed the infrastructure at the hardware, operating system and middleware layers. Assessed the application connection models, development practices, grid governance, security infrastructure and support software.
- **Specialist Developer for Sanlam Capital Markets**. Developed the Proof of Concept for a trading system based on MonitorScript, an event-driven computing language; and the Apama libraries, a set of tools for the development of real-time applications.
- **Data caching java developer at BP**. Developed the integration between the in-house market data cache (FoBUS) to the Murex cache (MDCS).
- **Grid and Cloud Architect for Excelian**. Designed and participated in the development part of the Excelian Grid On Demand Framework, a PaaS platform like AWS EC2. Researched new technologies for its marketability to clients, including DataSynapse, Star-P and CUDA.

Grid as a Service Team Leader

October 2009 – October 2010

Excelian Ltd for Daiwa Securities, London, UK

- Led the Grid as a Service Team at Excelian Ltd. The team provides completely managed state-of-the-art grid computing capabilities and ad-hoc grid projects to financial institutions.
- The GaaS Team at Excelian is an engineering and support team located in two separate time zones (London, Tokyo). Coordinated them to provide uninterrupted support and strategic planning. Worked with tight deadlines and buildt business-wide trust in my team.
- Led the development of a self-contained grid computing infrastructure using Platform Symphony with several layers of highly available technologies offering outstanding performance in a very resilient configuration.

High Performance Computing Operator
Excelian Ltd. for Royal Bank of Scotland, London, UK

- Supported and resolved incidents for over 100 DataSynapse grids in development, testing and production environments, using more than 3,000 Windows and Linux hosts. Ensured grid reliability, responsibility and teamwork.
- Engaged with specialist teams to delegate or escalate issues. Handled disaster prevention and recovery, including the actual loss of a complete datacenter.
- Executed the resource sharing and harvesting initiative, involving the use of the idle CPU time of 6,000 desktops and realizing savings of over £6 million.

Grid Analyst
February 2008 - June 2008

Excelian Ltd., London, UK

Research Assistant – Complex Adaptive Systems
Nov. 2005 - Dec. 2007

Instituto Tecnológico de Informática, Valencia, Spain

Education

Languages
English - Native with excellent business and technical communication skills
Spanish - Native
Portuguese - Working knowledge, goal of achieving public speaking proficiency by end of 2018
Italian, French - Basic knowledge

Certifications
TOGAF 9.1 Enterprise Architect
June 2017
AWS Cloud Solutions Architect - Associate
April 2017
Platform Symphony 5.1 Administrator
September 2011
PRINCE2 practitioner
September 2010

Master of Science:
September 2006 - September 2007

Parallel, Distributed and Grid Computing
Polytechnic University of Valencia, Valencia, Spain

Master of Science (Equivalent):
September 2003 - August 2005

Artificial Intelligence
Polytechnic University of Valencia, Valencia, Spain

Bachelor of Science:
September 1998 - August 2003

Computer Science Engineering
Polytechnic University of Valencia, Valencia, Spain