

Alisson Augusto Souza Sol - Résumé

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Work Experience

Microsoft Corporation

Redmond, WA, USA (except where location is defined)

- November/2011 – Current: **Principal Development Lead for the [Kinect for Windows](#) team**
 - Hire, lead, and manage a team able to implement computer vision algorithms. Transition latest machine learning real-time processing results from research into production-quality code, while maintaining existing codebase.
- August/2010 – October/2011: **Knowledge Engineer for the Engineering Excellence team**
 - Working on documenting and spreading best practices in the development discipline (focus on services, Azure, and agile methodologies).
 - Instructor/facilitator for training sessions presented to Microsoft developers by L&D team, including the “Agile development lab”, and JavaScript classes.
 - Technical owner of internal training on some new technologies, including Azure, SQL Azure, Html5, jQuery, and Silverlight.
- March/2008 – July/2010: **Development Manager for Microsoft Research Cambridge Innovation Development team in Cambridge, UK**
 - Hiring and management responsibilities and commitment to foster a results-driven working environment characterized by curiosity, depth reflection, mutual challenge and learning from others within and outside the team.
 - Gesture Mouse Experience Prototype (Microsoft [Touch Mouse](#)): Managed both development and test disciplines for initial incubation efforts, including development of device drivers and framework for evaluation of gestures. Performed evaluation of strategies between ad-hoc and machine learning algorithms for gesture recognition, including real-time integration with Matlab implementation. Development strategy for automated translation of prototyping code in C# to the production code in C++.
 - Microsoft Research AutoCollage Touch 2009 application: Managed both development and test disciplines, schedule and project scope. Extending the functionality of AutoCollage 2008, this is one of the first applications to use the multi-touch user interface features of Microsoft Windows 7. First Microsoft Research project integrated with [CEIP](#) (Customer Experience Improvement Program). Managed the relationship with vendors to have the application translated to 15 languages at release time. Received a gold star award for the significant contribution to the success of this project.
 - Microsoft Research [AutoCollage 2008](#): Wrote the application specification, worked as a hands-on developer, managed the development and test disciplines and all the release processes, schedule and project scope. Converted computer vision code from Matlab to C++, and implemented the first Microsoft Research project integration with [Windows Update](#). Received a gold star award for the significant contribution to the success of this project.
 - Worked with an external partner for the server-side development of a service to allow communication between a new device ([Wayve](#)) and mobile phone, using both SMS and MMS messages.
- February/2007 – February/2008: **Development Lead for Microsoft Research Cambridge Incubation and Technology Transfer team in Cambridge, UK**
 - Worked on the user interface components for trials of a new secure peer-to-peer technology ([Nimbus](#)).
 - Leader of a small team migrating an IPTV technology implementation from C# to C++ ([Pastry](#)).
- August/2004 – January/2007: **Software Design Engineer Lead for the Microsoft Office Business Applications team**
 - Development Lead for the Add-In for Excel, Reporting Wizard and Samples subsystems for Microsoft Office [PerformancePoint](#) Server 2007, a Business Intelligence solution allowing full performance management and scalable to entire corporations (with modules for forecast, monitoring and business analytics). As the leader of a team at times having 11 direct reports, I’ve demonstrated great precision on scheduling my components, despite dependencies across subsystems. As leader of the samples subsystem, defined an easily configurable [deployment model](#). Received a gold star award for the significant contribution to the success of this project.

- April/2003 – July/2004: **Software Design Engineer Lead for the Information Worker New Markets team**
 - Development Lead for the Microsoft Office Solution Accelerator for Proposals
I was the development lead of this solution accelerator with an Office client add-in, SharePoint site templates and webparts, and a dedicated web service. Participated in reviews and helped with architecture, design and code reviews for several [solution accelerators](#).
 - Development Lead for the Microsoft Office [Information Bridge Framework](#)
I was the development lead for the user interface subsystem of IBF 1.0, including the task pane rendering inside Office applications.
Lead initial effort of the Tools for IBF v1.+, jumpstarting the offshore development by training the development team in Hyderabad, India.
- April/2002 – March/2003: **Software Design Engineer Lead for the Microsoft Business Framework**
 - I was the development lead for the Workflow user interface (in ASP.NET) of the [Business Framework](#). After starting to lead a subsystem that was considered to be feature complete but had severe usability gaps, I've convinced upper management of the need to rewrite the entire subsystem with a better object-oriented architecture, what reduced the total lines of code by a factor of 10 (from around 30K LOC to ~3K LOC), with improved usability. Received a gold star award for the significant contribution to the success of this project.
- March/2000 – March/2002: **Individual Contributor for BizTalk and Application Center teams**
 - I was the main developer of the BizTalk [Orchestration Designer](#) for BizTalk 2002, and also did design and development for integration of OD in VS.NET for future versions.
 - Development of specifications and implementation of programs to test the product US-Commerce Latinum (BizTalk Orchestration Designer, XLANG parser, etc.).
 - Development of specifications and implementation of C++ tests for the reliability and timeliness subsystem.

Main Previous Work Experience

- Jul/1995 to Jun/1999 – **System Architect** – [Micro Universo](#)
 - Activities: Systems Analysis and Design for ERP (Enterprise Resource Planning) system; Model design was done with Rational Rose and relational scheme was automatically generated from model using Visual BASIC Automation script. The resulting object-oriented model had more than 200 classes and 1200 attributes, with reuse factor of 5 (more than 1000 tables would be needed in a pure relational model).
 - Main tools: Rational Rose, Centura Builder (ex-SQLWindows), Visual BASIC
- Sep/1994 to Feb/2000 – **IT Consultant** – [Codemig](#)
 - Consultant for all IT subjects for public mining company, including CAD (Computer-Aided Design), financial and HR systems.
- Co-founder and owner of 3 startup companies in the areas of software, hardware and IT consulting.
- Frequent presenter of courses and lectures in academic and professional events.
- Co-author of 10 patent applications (3 USA patents granted).

Education

- 2009: General Management Certificate from the Judge Business School, Cambridge University, UK
- 1997: Qualified for doctoral degree at UFMG (Federal University of Minas Gerais)
- 1993: M. Sc. Degree in Computer Science at UFMG
Work: PhotoPix: an Object-Oriented Framework for Digital Image Processing Systems
- 1990: Post Graduation studies in Electrical Engineering (Microelectronics) at USP
- 1988: B. Sc. Degree in Physics at UFMG