Fernando Daniel Farias

Sr. Tech Leader / Software Architect

PROFESSIONAL SUMMARY

- 10+ years' experience in software development with proficiency in Java, C++, and Cloud environments.
- Excellent communication and interpersonal skills. Experienced working with people from USA, India, Brazil, Lebanon, Ukraine and China.
- Experienced in Agile methodologies and process management.

TECHNICAL KNOWLEDGE

JAVA	J2EE, JDBC, Hibernate, JPA, Spring, JProfiler, Ehcache, Memcache, Quartz, Terracotta, A-MQ, SOA, SaaS, Cloud deployments and architecture
C++	C++11/14, OpenGL, DirectX, SDL, XNA, Boost, Xserver, OpenAL, CppCMS, Augmented Reality, ffmpeg, Poco, Box2D, Bullet, Urho3D
Web Development	Rich Internet Applications, WebGL, KineticJS, JSON, BSON, JavaScript, HTML5, XML, CSS, AngularJS, Websockets
Development Tools	Intellij Idea, NetBeans, Eclipse, Vim, GIT, SVN, Jenkins, Bamboo, Maven, Gradle, QtCreator, Sonar, Jira, Confluence
Web Servers	Apache, NginX, WebLogic, Tomcat, JBoss, WebSphere
Databases	Oracle, HyperSQL, PostgreSQL, MySQL, SQL Server, DynamoDB, MongoDB, H2, Redis
Operating Systems	Linux, Windows

WORK EXPERIENCE

GlobalLogic
June 2010 – Present

Project: VMWare - VSphere (March 2016 - Present)
Position: Architect / Team Leader / Technical Leader

Features development for the administration console web application. Remote management of virtual machine instances, template coordination, orchestration, BI dashboards and metrics from the virtualization layer kernel modules.

Responsibilities: Lead the team, organize team efforts. Develop the architecture, interface and services for the cloud administration platform. Manage deployments, implementations, bugfixing, security points, quality and performance.

Technologies:
Spring MVC, Spring Boot, Flex, BlazeDS, Java8, Gradle, Sonar, Bamboo, Virtualization, Linux Kernel loadable modules.

Project: Coopeuch (March 2015 - March 2016)
Position: Architect / Team Leader / Technical Leader

Development of the following applications for the largest credit union from Chile:
- Complete web Home Banking, including monetary transactions, credits and security challenges.
- Mobile Home Banking for Android, IOS and mobile platforms.
- Enterprise public site, with institutional information and marketing campaigns.

Responsibilities: Lead the team, organize team efforts. Develop the architecture, interface and services for the REST platform. Manage deployments, implementations, bugfixing, security points, quality and performance.

Technologies:
Spring MVC, Spring Boot, JBoss, Websphere, Apache CXF, SOAP, REST, Java8, Gradle, Sonar, Bamboo, OAuth2.

Project: Roku Inc. - Channel Apps (October 2014 - February 2015)
Position: Project Manager / Team Leader / Technical Leader

The Roku streaming player is the market leader in streaming entertainment devices for the TV. Roku streaming players are renowned for their simplicity, variety of entertainment choices, and exceptional value.

Roku channels takes the form of small apps, usually free to download and install into the Roku player. Once the app is installed it offers a variety of contents specific to the channel, in a custom interface, following a pattern so Roku usability is kept between apps, and seamless streaming in made possible. This apps can be made in a top level scripting language known as BrightScript, or directly into native code using the provided C++ NDK.

Responsibilities: Develop apps channels for third-party companies while enhancing the NDK for Roku. Capture requirements, architect the solution, manage the project, lead the development team, and develop the app itself from zero to production.

- Technologies:
  - BrightScript, C++, XML, JSON, RTMP, 2D games.

Project: Movero Inc. - Tools Suite (August 2013 - October 2014)
Position: Team Leader / Technical Leader

Movero Inc. is a prominent communications integral solution provider, offering from mobile devices acquisition services, to charges accounting and management. By combining flexible technology, service desk and expert consulting services, Movero address every mobility management challenge.

The internal tools suite is the core of Movero's business services and provides comprehensive business intelligence information to the customers, on top of the very flexible web portal management services, allowing customers and help desk agents to efficiently administer their resources.

Responsibilities: Develop tools optimizations in any and all its layers from the database to the web portal. Design and implement new and efficient architectures to handle the ever increasing customer base, while upgrading the already in place legacy applications, without service interruptions..

- Technologies:

- ○ Java, Spring, Oracle database, REST services, SOA.

Project: Cross Country Home Services - ECM (November 2012 - August 2013)
Position: Team Leader / Technical Leader

ECM is an intranet system dedicated to provide the information de CCHS floor agents needs in order to provide a comprehensive service to the clients. ECM also provides the means to take actions over accounts, contracts, billing systems, and the extensive range of financial information CCHS handles.

ECM provides a simpler, faster and more attractive interface to the agents, replacing the decade old Oracle Forms based application. The Oracle database was maintained along with the mature and trusted stored procedures, but from there to the agent, ECM takes place. ECM handles the enrollment of clients, the authorization of services, the logistics of service providers, and the maintenance of any information regarding the client, the contract, or the services.

Responsibilities: Develop the application and the architecture for ECM, from the database connection, to the front-end interface. Provide support on technical decisions. Lead the local team. Meet in person with the client and negotiate any dependencies with the partner development companies involved.

- Technologies:
    - ○ Java, Spring, MyBatis, Oracle database, AngularJs, REST.

Project: KonciergeMD - KMD (July 2012 - October 2012)
Position: Team Leader / Technical Leader

KMD starts from the need to maintain medical records, updated, centralized, and rapidly accessible to the medical staff of Philadelphia.

KMD aims to provide the means to easily access the clinical history of the patients. It also efficiently arranges the appointments for the health providers, even more, giving the caregivers the option to make and follow the appointment on-line. The system also centralizes the test results and the diagnosis, so the patient can be assisted in any health center of the region.

Responsibilities: Develop the web application in all it's layers, from the data model definition, to the front-end interface. Provide the expertise view over technical decisions. Lead the local team.

- Technologies:
    - ○ Java, Play, EBean, H2 database, YAML, Scala.

Project: SampleDigital - DAX D3 (May 2012 - July 2012)
Position: Team leader / Technical Leader

The client has the largest suite of products for the development and manipulation of audiovisual resources, including administration tools for the production process and edition of audiovisual materials.

Dax D3 provides an extensive tools suite for the collaborative manipulation and development of audiovisual material, in a robust, fast, and secure work flow, going through editors, directors, and quality assurance staff.

Responsibilities: Develop and infrastructure based in Cloud services to provide elasticity to the application. Implement the remote services layer to provide the extensive audiovisual materials in a highly performant way.

- Technologies:
    - Java, Alfresco, Ehcache, Spring MVC, C++, Ffmpeg, Bash.

Project: Midawi Holdings - DoughMain (September 2010 - May 2012)
Position: Team Leader / Technical Leader

Midawi Holdings, Inc., headquartered in Princeton, NJ, was founded to take on the growing challenge of financial literacy among youth and adults. The company's mission is to deliver a better way of organizing the family that is both more efficient and effective.

DoughMain is a Family organizer packed with tools for busy lives. Recognizing the central role of money -and money smarts- in creating a better future, also empower kids to become better educated and more confident about money management and financial topics.

Responsibilities: Lead the team of 17 members. Design the architecture and infrastructure. Supervise implementation. Make decisions regarding technical issues.

- Technologies:
    - Java, JSP, Servlets, Mobile Web, Spring, Hibernate, Apache Tomcat, MySQL, Amazon AWS (EC2, S3, RDS, SES, ClodFront), RightScale, Bash, Terracotta, Quartz, EhCache.

Aconcagua SF
May 2010

Project: MFC Framework
Position: Lead Developer

Aconcagua SF provides software development services based mainly in Microsoft products. One of the clients needed metrics about quality and performance for the project under development.

As an external consultant, i was in charge of the development of a .NET component to profile running processes and derive metrics from method calling, method time usage, and resources usage. In addition i had an Aconcagua SF developer in charge, for the task of creating graphics from the metrics recorded.

Responsibilities: Develop a .NET component to profile running processes. Oversee the development of a front-end with graphics for the metrics recorded. Deploy the solution.

- Technologies:
    - C++, STL, WinSockets, COM, .NET.

Clifton-Myers Enterprises
June 2008 - April 2010

Project: Tangoe - Interconnectivity Modules
Position: Lead Developer

Tangoe is the leading global provider of Communications Lifecycle Management (CLM) software and related services to a wide range of global enterprises. CLM encompasses the entire lifecycle of an enterprise's communications assets and services, including planning and sourcing, procurement and provisioning, inventory and usage management, invoice processing, expense allocation and accounting, mobile device management (MDM), decommissioning, and disposal.

In each enterprise there are a number of different systems dedicated to internal and internal-external communications, associated with expenses processing. These systems are usually based on well known protocols, but sometimes they use custom protocols, or they use custom systems all together. For each of these custom systems, an interconnectivity module must be develop in order to use enterprise's data inside Tangoe CLM.

Responsibilities: Develop interconnectivity modules. Implement communications device specific interconnectivity libraries. Implement invoice mapping for automatic transfers between the enterprise's invoice system and Tangoe CLM.

- Technologies: Java, C, C++, Drools RBM, COM, STL, Sockets.

TECHNICAL RESEARCH

Universidad Tecnológica Nacional
2001 - Present

Project: GRIDTics, medical surgical trainer
Position: Technical Leader

The project aims to create a fully functional medial trainer for complex surgery procedures. There are several sub projects including haptics controllers, human body physics computations, realistics virtual reality volume renderings, and petabyte fully saturated network traffic control.

Responsibilities: Research, develop and implement realistic rendering of human body volumes, using a cloud of graphics card enhanced machines each with thousands of OpenCL capable cores to calculate the ray tracing of lights via Monte Carlo method and configurable frame integration techniques. Implement the renderer kernels and the integration core. Develop the transformations network protocol to achieve minimum latency.

- Technologies: C++, STL, Boost, Linux Kernel, OpenCL, CUDA, distributed computing.

Project: Tiressias, browse in every sense
Position: Project Manager / Technical Leader

Tiressias is a browser extension to provide Internet browser ability without the need of a screen. It was originally conceived to provide Internet access to blind people, and has grown to provide Internet access to everyone who does not, or cannot, see the screen in a particular situation.

Tiressias utilises several parts of the Shelak media engine and can be plugged into every modern web browser including mobile ones. Tiressias is in development stages, but even so, it has won the first prize in the national congress for systems engineers 2007 and it has the partnership of government groups and non government organizations.

Responsibilities: Develop and implement the server side application. Planning and management of the entire project. Lead the team of 6 members. Communications and public relations with external partners.

- Technologies: C++, STL, Boost, NPAPI, Android NDK, JSON.

Project: Shelak Media Engine
Position: Project Manager / Lead Researcher

Shelak is a media engine designed to cope with the differences between operating systems, hardware devices, and also facilitate developer tasks while handling media resources.

The research involved on Shelak laid the foundations in the develop of parallel projects strongly media based. Some of this projects were successful in business endeavors and others in further academic researches.

Responsibilities: Develop and implement the core of Shelak. Lead a team of 4 members in the develop and implementation of Shelak's main components. Direct community releases of derived information and knowledge.

- Technologies: C, C++, STL, DirectX, OpenGL, SDL, OpenAL, Xserver, WinAPI, Dreamcast Katana, Playstation PSP, Android NDK.

ACADEMIC BACKGROUND

University Studies
- Master in Computer Science / Systems Engineer - Universidad Tecnológica Nacional (UTN)

Languages:
- Spanish (native)
- English (advanced)