**Hector Cuesta**Big Data / Machine Learning

Contact Person: Ivan Galvez

Mobile: 1203 701 7444   
email: [ivan.galvez@sintesys.us](mailto:ivan.galvez@sintesys.us)

Hector provides consulting services for software engineering and data analysis with over 8+ years of experience in a variety of industries developing information systems including financial services, social networking, e-learning and Human Resources. He has experience defining business requirements and designing software specifications in conjunction with the implementation of Agile Scrum as a framework for project management. He was also in charge of monitoring the development and installation of software solutions. He is fluent in several programing languages like Java, Python, C#, SQL, etc.

Hector holds a BA in Informatics and a MSc. in Computer Science. His main research interests lie in **Machine Learning, High Performance Computing, Big Data, Clean Code and Data Visualization**. He also helped in the technical review of the books Raspberry Pi Networking Cookbook and Hadoop Operations and Cluster Management for Packt publishing.

**PROFESSIONAL SUMMARY**

* 8 years of experience in Software Engineering and Development from the Requirements Analysis to the Implementation.
* Expert knowledge in Data Modeling with relational databases.
* Good knowledge in Software Estimation (Cost and Time).
* Proficiency in Architecting High Performance Software Solutions.
* Good experience in mentoring and leading Software development teams.
* Proficiency in Enterprise Web Development with Java.
* As a Team lead had worked on Scrum Agile Methodology.
* Technical expertise in NoSQL databases like MongoDB or Cassandra.
* Good experience in Software Security and information encoding
* Team player, hard worker and I adopted various technologies from its early versions, which allowed me to deepen their application and master their use.
* Expert knowledge in Data Analysis and Machine Learning.

**PROFESSIONAL CERTIFICATIONS**

* Certified Software Engineer by NYCE (2013)
* Certified Instructor for Advance C# Programing by Aptech (2009)
* Certified Instructor for SQL Server 2010 Designer by Aptech(2009)
* SUN Certified Programmer for Java 1.4 by SUN (Expired 2005)

**TECHNICAL SKILLS**

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| **Programming Languages** | Java, Python, C#, C-CUDA, Hive, SQL, JavaScript, R, C, Matlab. |
| **Web Technologies** | JSP, ASP.NET, CSS, HTML 5 |
| **Web & Application Servers** | Tomcat, Glassfish, Weblogic, IIS. |
| **Databases** | SQL Server 2010, MySQL, Oracle, MongoDB, Cassandra |
| **Operating Systems** | Windows 7, Linux Debian, Linux Ubuntu, Linux Suse |
| **Framework** | **ITIL**, Scrum |
| **IDE** | Netbeans, Eclipse, Visual Studio. |
| **Scripting Languages** | Java Script, JQuery, |
| **Version Control Systems** | CVS, Git |
| **Visualization Tools** | D3js, Gephi, Raphael |
| **Other Tools** | Hadoop, Mahout, WEKA, Apache Commons, Enterprise Architect, OpenMP, MPI, OpenRefine, Spring, Struts, JAX-WS, Django |

**AWARDS**

* Value IT Professional from Telmex Institute of Technology. (2011)
* Scholarship at San Diego Supercomputer Center Big Data Summer Institute (2012)

**PROFESSIONAL EXPERIENCE**

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| --- | --- | --- | --- |
| Senior Software Engineer | | | |
| Company: | Lobo Software | | |
| Client: | Banobras, Nacional Financiera | Dates: | August 2010 to date |
| Technologies: | Java, JEE, Hadoop, Hive, Oracle, MongoDB, JPA, ExtJS, Apache Tomcat Cluster. | | |
| Activities | I am responsible for maintaining the hardware and software infrastructure that supports the entire business. I developed the Human Resources Management Application currently used in government banks in Mexico.  I'm responsible for maintaining all necessary services for the company, which includes the installation, administration and maintenance of multiple applications.  It is also my responsibility to help define business requirements in conjunction with appropriate department heads. I also am in charge of monitoring the implementation of the requirements with the other members of the development team.  Participate actively in the development and maintenance of new features in the platform. I am responsible for the direction of the development team, and one of my main activities is to investigate and implement new technologies to solve the problems of scalability.  Responsibilities:   * Implementation of High Performance Apache Tomcat Cluster * Participate in many technical decisions about the tools and patterns to use. Use JavaEE, JPA, Spring, Mojito, Mockito. * Implementation of MongoDB for Data processing engine. * Mentoring in QA and development team. * Define Requirements for new functionalities and work with final users. * Defining the architecture for new application modules * Implementation of Hadoop for Large Scale Data Analysis | | |

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| --- | --- | --- | --- |
| Senior Software Engineer | | | |
| Company: | Kimpack Mfg. Co. | | |
| Client: | Kimpack Mfg. Co. | Dates: | January 2006 to August 2010 |
| Technologies: | Java, JEE, SQL Server 2008, OLAP, JQuery, Apache commons, JPA. | | |
| Activities | I was responsible for the Software development team in the creation of manufacturing control tools and financial services. Working closely with the end users to the acquirement of system requirements, defining new functionalities and defining architecture. Actively working in software development and quality assurance. During my last two years there, was the architect of the Business Intelligence Analysis Tool and predictive analytics for sales and purchases.  Responsibilities:   * Requirements Engineering of Business Functionality. * Managing the development team. * I co-authored the writing of Architecture Document Reference. * In this company we use specifically Agile Scrum as a framework for project management. * Implement a security framework for all applications. * Design and implement the initial version of the Business Intelligence Analysis Tools. | | |

**EDUCATIONAL QUALIFICATION**

**Post-Graduation**

Degree : M.S. in Computer Science

College/Campus : High Performance Computing, Data Analysis and Simulation Lab, Mexico.

University : Autonomous University of Mexico State (UAEM), Mexico.

Degree : Internship

College/Campus : Center for Computational Epidemiology and Response Analysis (CeCERA), TX USA.

University : University of North Texas (UNT), TX USA.

**Under-Graduation**

Degree : B.A. in Informatics

College/Campus : Software Engineering Program, Mexico.

University : Ixtapaluca Institute of Technology (TESI), Mexico.

**Highlights:**

* First in Post-Graduation with summa cum laude
* Undergrad Minor in Econometrics