

ADELEIN RODRIGUEZ

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SUMMARY

M.S. Software Engineer looking for an opportunity to work in an exciting web company that reaches millions of users. Experienced in Java back-end, middleware development, SOA Architectures, XML, MySQL/DB2/PostgreSQL, Django, Python, Java Web Services, Apache Web Server, PHP, HTML, WSDL, C/C++, IBM Websphere (Integration Developer, Process Server, Business Monitor), Linux/Unix, bash shell scripting, developer tools (Eclipse, SVN, GIT), machine learning algorithms

- 5+ years experience developing middleware web API in Java
- 6+ years developing in Linux/Unix environment
- 2 years developing web applications with Java (Servlet, JSP), Apache Tomcat, Django, PHP, HTML, and CSS
- Eager to learn new technologies

EDUCATION

- **M.S., Computer Engineering, 3.8/4.0, University of Central Florida, Orlando**
 - Expertise in Machine Learning
- **B.S., Computer Science, 2005, Florida International University, Miami**

EXPERIENCE

- **Software Engineer**, IBM, San Jose (February 08 - Present)
DB2 pureXML Technologies. Developed and designed various components in the DB2 kernel for the pureXML and Warehousing solutions.
Currently working on the DB2 Data Warehousing solution for SMP (Symmetric Multiprocessing) to enhance performance in TPC-H and TPC-DS benchmarks.
 - Technologies: DB2, Java, C/C++, XML, Clearcase/Clearquest, TotalView, Linux/Unix.
- **Intern**, [Extreme Blue](#), IBM, San Jose (May 2007- August 2007)
Developed healthcare components and business intelligence process workflows to serve as a framework for clinical applications using WebSphere tools. integrated framework with the Eclipse Open Healthcare Framework. Created business analytics using the open source Business Intelligence Reporting Tool (BIRT) and WebSphere Monitor and Portal Server. Delivered prototype to IBM's customer at the end of summer. Pitched and presented project at an expo to CEO in IBM's Headquarters.
 - Technologies: Java, Java Web Services, WSDL, IBM Websphere Suite (Process Server, Integration Developer, Enterprise Service Bus, Application Business Monitor), DB2, Eclipse BIRT (Business Intelligence Reporting Tool), Eclipse, SVN.
- **Researcher and Developer**, picbreeder.com, Orlando, FL (Summer 2007)
Collaborated to create site where users can create images based on methods of Neural Networks Genetic Evolution.
 - Technologies: Machine Learning, Java, Java Web Services, WSDL, Apache, PHP, MySQL, HTML/CSS, SVN.
- **Research Assistant**, University of Central Florida, Orlando (Summer 2006)
Investigated the field of reinforcement learning, autonomous agents, and evolutionary computation. Created simulations to validate research.

- Technologies: Java, XML, Eclipse.
- **Developer**, Florida International University, Miami (Summer 2005)
Deployed as web services streaming multimedia applications that used the SIP (Session Initiation Protocol). Created libraries to deploy streaming video and audio applications that would then communicate via SIP with other applications.
 - Technologies: Java, Java Web Services, WSDL, Apache, SIP, Perl, Eclipse, SVN.
- **University IT Staff**, Florida International University, Miami (August 2004 –April 2005)
Investigated security tools to monitor networks (NIDS). Used Snort/ACID/Barnyard in Linux systems to monitor the C.S. Dept. Network. Installed a "Honeypot" computer to log intruders. Programmed a library and tools in Perl to allow users in a network to automatically backup files in magnetic disks and retrieve information about the existing backed up files.
 - Technologies: Perl, MySQL, Apache, FreeBSD, Linux, SNORT (Intrusion Detection and Prevention System).
- **Intern**, Univ. Of Texas at Arlington, TX, Arlington (Summer 2004)
Worked on a project to create a "Smart Home." Designed physical/mathematical model for light sensors to interact with ambience lights and detect anomalies. Investigated the physical properties of photocells, conducted experiments and analyzed data using GNU plot. Created user interfaces to demonstrate how an anomaly detection system should work using the X10 protocol.
 - Technology: C/C++, X10, Apple Rendezvous Technology (now Bonjour).
- **Developer**, Florida, ArteagaBlinds, Miami (September 2002 - August 2003) Created online store for custom made window shades. Created optimal ways of displaying more than 10000 products. Created advertisement/marketing content.
 - Technology: Java, JSP, J2EE, MySQL, perl, HTML/CSS, Javascript, Dreamweaver, CVS, Netbeans, CVS.

SKILLS

- Java back-end.
- Python/Django
- C/C++.
- Machine learning algorithms (neural networks, genetic algorithms, genetic programming, expert systems).
- SOA architectures (REST using JSON or XML format).
- Client-side web development with semantic HTML, CSS presentation, and unobtrusive JavaScript
- Experience with client/server multi-tier architectures.
- DB2 and MySQL.
- Apache Web Server and Tomcat Server, IBM Websphere Tools (Integration Developer, Process Server, Business Monitor)
- Linux and Unix.
- Scripting in Python, Bash, Ksh, Perl
- JSP/Tomcat Server
- Some server-side web development with PHP and Python (Django).
- Bilingual (English/Spanish).

AREAS OF INTEREST

- Middleware technologies.
- Social web technologies.
- Machine learning and data mining.
- Information visualization.

PUBLICATIONS

- Trainee Evaluation Through After-action Review by Comparison Hans Fernlund, Avelino J. Gonzalez, Joakim Ekblad, and Adelein Rodriguez The Journal of Defense Modeling and Simulation: Applications, Methodology, Technology, Jul 2009; vol. 6: pp. 135 - 150.
- [Picbreeder: Collaborative Interactive Evolution of Images](#) Jimmy Secretan, Nicholas Beato, David B. D'Ambrosio, Adelein Rodriguez, Adam Campbell, and Kenneth O. Stanley School of Electrical Engineering and Computer Science, University of Central Florida To appear in: Leonardo (Transactions Section) 41(1), 2007. 2 pages (This article is a short notice written for the transaction section of the journal)
- [Picbreeder: Evolving Pictures Collaboratively Online](#) Jimmy Secretan, Nicholas Beato, David B. D'Ambrosio, Adelein Rodriguez, Adam Campbell and Kenneth O. Stanley School of Electrical Engineering and Computer Science, University of Central Florida To appear in: Proceedings of Computer Human Interaction Conference (CHI 2008). New York, NY: ACM, 2008 (10 pages)

PERSONAL PROJECTS

- **ServiceBucket:** A services bookmarking system.
- **Calorific:** Attempt to quantify amount of information in a site similar to calories intake.

AWARDS & ACTIVITIES

- Google Hispanic Scholarship 2007.
- Xerox 2005 Minority Engineering Scholarship.
- College of Arts and Sciences Excellence Award 2005 for Computer Science.
- Jose Marti Scholarship, Bright Futures Scholarship, Ford Salute to Education Scholarship in Computer Science.
- CSEMS FIU Scholarship for Computer Science and Mathematics (Sponsored by the National Science Foundation).
- Founder of Madlab (Computer Interest Group) at Florida International University. Taught a series of lectures about the Linux/Unix Operating System.
- Officer of WICS (Women in Computer Science) at Florida International University. Created WICS forum. Organized LegoMindstorm workshops to allow students to develop and program their own robots.