

Huascar A. Sanchez

Computer Science Phd Student

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Research Interests

My current focus is on Ubiquitous Databases; an idea that focus on placing data everywhere.

Education

UC Santa Cruz, Santa Cruz, CA - Phd, Computer Science, 2009-present

San Jose State University, San Jose, CA - MS, Software Engineering, 2006

Highlights

- Published in national and international Software Engineering conferences.
- CoOrganized two workshops in well-known conferences (e.g., OOPSLA).
- CoAdministrated the Software Patterns Group at San Jose State University.
- CoFounded, while in San Jose State University, a startup company named vrlSoft, Inc.
- Wrote a Master's thesis titled "Building Systems using Patterns - Creating Knowledge Maps."

Class Projects

- Topics in Database Systems (spring 2010): JDBC support for Google's Datastore APIs.
- Programming Languages (winter 2010): a Limited Static Type Checker for Javascript.
- Human Computer Interaction (winter 2010): a highly interactive UCSC campus map.

A complete list of other software projects can be found at www.hsanchez.net.

Employment

Software Developer/Contractor, Infomotor, San Francisco, CA — 2010-2010

Responsible for developing Flex applications to streamline both reporting and presentation of critical data, and monitoring of key performance metrics.

Software Developer, Pearson VUE; Bloomington, MN — 2006-2009

Worked on the next generation of online tools, using Flex and Java, for managing company's test centers. Supported mission critical Java Swing and database-driven scheduling and registration applications. CoArchitected an enterprise-level correspondence system for managing and delivering highly configurable correspondence in response to business events.

Contributed accurate artifacts, e.g., a load-unit testing framework (in Java), technology brown bags, which enabled peers to do their jobs more efficiently.

Software Engineer, Vergencemedia, Inc.; Burlingame, CA — 2008-2009

Contributed key artifacts, e.g., a “Windows-service” that supplied streaming information to application users to create interactive products’ stories, which accelerated company’s “product story” site public-launch.

Software Engineer/Cofounder, vrlSoft, Inc.; Santa Clara, CA — 2005-2006

Actively involved in every aspect of the company’s software development lifecycle. Advised peers on use and benefits of unit testing and code coverage frameworks in software development. Designed and implemented some work that was presented in ECOOP 2005.

Freelance Web Developer, Self-employed; San Jose, CA — 2003-2005

Designed and implemented, using different Web technologies, several user centered websites for different clients in the Bay area. Improved clients’ online operations in anticipation of increased customer demands by designing and implementing several inventory systems.

Teaching Experience

CmpE 226: Adv. Database Systems, San Jose State University — fall 2004

Teaching Assistant for Professor M.E. Fayad

CmpE 296G: Software Architectures, San Jose State University — fall 2004

Teaching Assistant for Professor M.E. Fayad

CmpE 202: Software Systems, San Jose State University — spring 2005

Teaching Assistant for Professor M.E. Fayad

CmpE 133 & 138: Soft. Engineering I & II, San Jose State University — spring 2005

Teaching Assistant for Professor M.E. Fayad

Publications

- **H.A. Sanchez**, M.E. Fayad, The Branding Analysis Pattern, The 4th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-06), March 8-11, 2006, Dubai/Sharjah, UAE.
- J. Gresh, J. McKim, **H. Sanchez**, The Dynamic Mapping Design Pattern, The 12th Pattern Language of Programs (PLOP), September 7-10, 2005, Allerton Park, Monticello, IL, USA.
- M.E. Fayad, Haitham S. Hamza, **Huascar A. Sanchez**, Towards Scalable and Adaptable Software Architectures, The 2005 IEEE International Conference on Information Reuse and Integration (IEEE IRI-2005), August 15-17, 2005, Las Vegas, NV, USA.

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- **Huascar A. Sanchez**, Laying the Foundations for Branding as a Stable Analysis Pattern, The 19th European Conference on Object Oriented Programming (ECOOP) - Workshop on Building a System using Patterns: Examine the Illustrious Claim, July 25-29, 2005, Glasgow, Scotland, UK.
- Mohamed Fayad, **Huascar Sanchez**, Haitham Hamza, A Pattern Language for CRC Cards, The 11th Pattern Language of Programs (PLOP), September 8-12, 2004, Allerton Park, IL, USA.
- Mohamed E. Fayad, **Huascar A. Sanchez**, Gaston R. Cangiano, Stable Automation Pattern, The 4th Latin American Conference on Pattern Languages of Programming (SugarLoaf PLOP), August 10-13, 2004, Porto Das Dunas, Ceara, Brazil.
- M.E. Fayad, H.S. Hamza, **H.A. Sanchez**, A Pattern for an Effective Class Responsibility Collaborator (CRC) Cards, The 2003 IEEE International on Information Reuse and Integration (IEEE IRI-2003), October 2003, Las Vegas, NV, USA.
- M.E. Fayad, **H.A. Sanchez**, B. Lai, The Applications of the Sampling Pattern, The 6th International Conference on the Unified Modeling Language (UML 2003) - Workshop on Stable Analysis Patterns: a true problem understanding with UML, October 20-24, 2003, San Francisco, CA, USA.
- M.E. Fayad, **H.A. Sanchez**, G.R. Cangiano, The Automation Analysis Pattern, The 6th International Conference on the Unified Modeling Language (UML 2003) - Workshop on Stable Analysis Patterns: a true problem understanding with UML, October 20-24, 2003, San Francisco, CA, USA.
- **H.A. Sanchez**, B. Lai, M.E. Fayad, The Sampling Analysis Pattern, The 2003 IEEE International Conference on Information Reuse and Integration (IEEE IRI-2004, October 27-29, 2003, Las Vegas, NV, USA.

Workshops

- M.E. Fayad (Chair), Chia-Chu Chiang, **Huascar A. Sanchez**, Pablo Chacin, Srin Ramaswamy, Arturo Sanchez-Ruiz, Selmin Nurcan, A. Kannammal SampathKumar, The First International Workshop on Pattern Languages: Addressing Challenges, October 21, 2007, in conjunction with OOPSLA 2007, Montreal, Canada.
- M.E. Fayad, **Huascar A. Sanchez**, and Haitham S. Hamza, Focus Group on Building Systems of Patterns, The 11th Pattern Language of Programs (PLOP), September 8-12, 2004, Allerton Park, Monticello, IL, USA.

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Professional Affiliations

Association of Computing Machinery - ACM, <http://www.acm.org>.

Skills

- Java, C#, SQL, HTML, CSS, and XML/XSLT.
- Guice, Java Generics, Ant, Apache Ivy, EasyMock, JUnit, TestNG, and JUnitPerf.
- Object oriented programming, API design, Software patterns.
- Familiar with HCI principles and methods (e.g., UCD), Java Swing, JAXB, Haskell, Python, JSON, and Flex.

Other

Native Spanish speaker; interested in classical painting and foreign films; love traveling and the culinary arts; US Citizen.