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# EXPERIENCE

## Senior Java Web Developer

**GlobalGiving / ManyFutures, Inc., Washington, D.C.**

*April 2007 - Present*

* Designed, developed, and maintained all aspects of [www.globalgiving.com](http://www.globalgiving.com/) including user experience, graphic design, business logic, and web development.
* Worked with business team to design and develop co-branded intranet web sites for clients such as Ford Motor Company, Gap Inc, Applied Materials, and other Fortune 500 companies.

## Research Specialist

**Accenture Technology Labs, Chicago, IL**

*August 2006 – April 2007*

* Worked in Systems Integration group researching software engineering, collaborative development, Web services, and Service Oriented Architectures (SOA).
* Developed extensible framework for adapting legacy applications into Web services using a drag-and-drop interface.
* Developed a search engine and interface for finding relevant code samples and applications from a large repository of projects.
* Proposed and developed research projects on software engineering, collaboration, and next-generation IDE capabilities.
* Helped define Accenture’s 2007 Technology Vision for software metrics and collaborative software development.

## Lead User Experience Designer and Software Engineer Hillcrest Laboratories, Inc., Rockville, MD

*June 2004 – August 2006*

* Developed award-winning user interfaces for next-generation television and home entertainment product (HoME™).

|  |  |  |
| --- | --- | --- |
| * Designed, prototyped, and implemented interface | for | all |
| television related components in product. |  |  |
| * Contributed over 80,000 lines of Java and 20,000 | lines | of |
| JavaScript to core software framework. |  |  |

* Implemented object-oriented MPEG-2 encoder/decoder in Java.
* Incorporated latest human-computer interaction research in prototypes and production systems.
* Developed full-featured prototypes and conducted user studies.
* Created corporate human-computer interaction guidelines and interface design process.
* Managed software engineering development for application layer.
* Composed coding standards and software development life-cycle for user experience software engineers.
* Developed plug-ins for Eclipse to help programmers adhere to coding standards and develop code more quickly.
* Ported software to J2ME platform for customer demonstrations.
* Mentored college intern for Fall 2005 semester.

**PROGRAMMING LANGUAGES**

* Java
* JavaScript, ECMAScript
* JSP
* C/C++
* C#
* SQL
* ASP/ASP.NET
* VB .NET
* Perl
* XML/HTML
* SVG

**SKILLS**

* Human- Computer Interaction
* User Interface Design
* Object Oriented Programming
* Test-Driven Development
* Rapid Development
* Paper Prototyping
* Agile Techniques
* SCRUM/XP

**TECHNOLOGY PROFICIENCIES**

* Eclipse
* Eclipse Plug-ins
* Eclipse RCP
* Tomcat/Apache
* Web Services (SOAP and REST)
* Google Web Toolkit (GWT)
* JUnit
* Log4J
* Ant
* Axis/Axis2
* Hibernate
* Velocity
* J2ME, J2SE, J2EE
* OpenGL/JOGL
* OpenAL/JOAL
* CruiseControl
* JIRA/Bugzilla
* MySql
* Visual Studio .NET
* SQL Server
  + Represented company at conferences and in business meetings with several Fortune 500 executives.

## Research Assistant

**Human-Computer Interaction Laboratory University of Maryland, College Park, MD** Advisor: François Guimbretière

*February 2003 – May 2004*

* + Researched techniques that allow users to import hand-written annotations into digital documents.
  + Expanded AbiWord word processor to incorporate proposed interactions and validate research.
  + Presented research at ACM User Interface Software and Technology (UIST) Conference 2004 and submitted paper to ACM Transaction on Computer-Human Interaction (TOCHI).
  + Received J.R. Dorfman Prize for Best Undergraduate Research Project in College of Computer, Mathematics, and Physical Sciences for 2003-2004.

## Teaching Assistant

**Computer Science Department University of Maryland, College Park, MD** *September 2002 – December 2003*

* + Created and managed projects using SCRUM methodologies.
  + Answered students’ questions and provided corrective feedback during office hours.
  + Supported Computer Science II (CMSC 214), Computer Organization (CMSC 311), and Data Structures (CMSC 420).

## User Interface Designer, Programmer/Analyst ProList, Inc., Gaithersburg, MD

*June 1998 – August 2003 (Summer and Winter Breaks)*

* + Designed, implemented, and integrated web-based customer relations management (CRM) system with mass mailing facility.
  + Created systems that improved relationships with existing customers and earned company certification as a Microsoft Premiere Vender.

# EDUCATION

* Microsoft Office
* Macromedia MX Suite
* Photoshop
* Premiere
* Windows XP
* Unix/Linux

**PROFESSIONAL ACTIVITIES**

* CHI 2006 (Computer- Human Interaction Conference)
* UIST 2004 & 2005

(User Interface Software and Technology)

* CES 2005 & 2006 (International Consumer Electronics Show)
* D3 2005

(The Wall Street Journal’s D3: All Things Digital Conference)

* Member of Association for Computing Machinery (ACM), 2004 – 2007
* Reviewer for CHI 2006 Work-in-

Progress Papers

## B.S. Computer Science with Honors, Magna Cum Laude – May 2004

University of Maryland, College Park GPA: 3.9/4.0

## B.A. Economics, Magna Cum Laude – May 2004

University of Maryland, College Park GPA: 3.9/4.0

## International Baccalaureate Diploma – May 2000

Richard Montgomery High School, Rockville, MD

# PUBLICATIONS AND PATENTS

* + Conroy, K., Levin, D., Guimbretiere, F. *ProofRite: A Paper-Augmented Word Processor.* Interacting with Computers. Submitted Nov. 2006.
  + Conroy, K., Levin, D., Guimbretiere, F. *ProofRite: A Paper-Augmented Word Processor.* User Interface Software and Technology (UIST) 2004 Companion (Peer- Reviewed Demonstration), Oct. 2004, pp. 29-30.
  + Hunleth, F., Gritton, C., Conroy, K., Stoner, R. *Client-server architectures and methods for zoomable user interfaces.* United States Patent Application #20050283798. Filed June 2005.
  + Gritton, C., Aufderheide, D., Conroy, K., Goyal, N., Hunleth, F., Scheirey, S., Simpkins, D. *Distributed software construction for user interfaces*. United States Patent Application #20060176403. Filed August 2006.
  + Hunleth, F., Moshiri, N., Napier, W., Simpkins, D., Wroblewski, F., Conroy, K., Gritton, C. *Methods and systems for enhancing television applications using 3D pointing*. United States Patent Application #20060184966. Filed August 2006.

# AWARDS

* + J.R. Dorfman Prize for Best Undergraduate Research Project in College of Computer, Mathematics, and Physical Sciences – May 2004
  + Outstanding Graduate Teaching Assistant, College of Computer, Mathematics, and Physical Sciences – May 2004
  + Upsilon Pi Epsilon, the first and only international honor society for the computing sciences, UMCP Chapter – May 2004
  + University of Maryland Honors Citation – April 2003
  + National Society of Collegiate Scholars – April 2003
  + Golden Key International Honor Society – September 2003
  + President’s Scholarship, University of Maryland – 2000-2004