KEVIN CONROY

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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 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

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- 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
- **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.

- 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

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- 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