

Pam Hayes
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CAREER SUMMARY

Senior software developer with 12 years of web application experience, and years of desktop development before that. Solid experience building n-tier Java applications. Known for creating comprehensive regression test suites, refactoring unmaintainable code, and applying object-oriented design principles. Persistent, thorough problem solver with a methodical approach to troubleshooting and resolving defects. Committed to software development best practices, and an enthusiastic practitioner of the Agile methodology.

PROFESSIONAL EXPERIENCE

UNIVERSITY OF MICHIGAN, ANN ARBOR, MI 1998-2013

MICHIGAN INSTITUTE FOR CLINICAL & HEALTH RESEARCH 2006-2013

Application Programmer/Analyst Senior

Collaborated with clients and 6-person team to develop a public-facing web tool that helps connect research teams to potential study participants, effectively a dating site for research studies. Worked with faculty and staff to create a utility for reporting NIH-mandated metrics; a web application enabling online randomization of study subjects; a concept-to-SQL query service providing concurrent access to a dynamic array of databases; and a web service application demonstrating interoperability among five systems.

- Coded majority of concept-to-SQL query web service, and played key role in development of participant-to-study matching application by leading on four of the ten major features and on six of the eleven smaller features.
- Satisfied major grant requirements by devising algorithm to translate complex medical codes into proprietary XML format and working with other developers to refine web service APIs.
- Significantly improved application maintainability by refactoring nearly 3,000 lines of unstructured JavaScript.
- Contributed to the success of projects through attention to detail and by focusing on making sure end-to-end functionality was correct and robust.
- Helped teams on multiple projects consistently meet delivery targets by organizing and breaking down workflow into manageable chunks.
- Increased team efficiency and effectiveness by initiating daily stand-up meetings and by lobbying for greater elaboration of requirements.

Technologies: Java, Spring, Hibernate, JUnit, DbUnit, JPA, JDBC, JavaScript, jQuery, DHTML, AJAX, JSON, JSP, CSS, backbone.js, XML, JAX-WS, SOAP, JAXB, JDOM, XPath, Eclipse, Maven, Oracle, Tomcat, Mac OS X, Linux, Windows

INFORMATION AND TECHNOLOGY SERVICES 2000-2006

Application Programmer/Analyst Intermediate

Developed e-Commerce solutions and software integrations, and several web applications, including a hazardous-materials cataloguing app and a campus portal. Greatly improved usability and uptake of e-Classifieds app by optimizing it to be significantly faster.

Technologies: Java, WebObjects, PHP, HTML, XML, CSS, JavaScript, SQL, MySQL, Mac OS X, Solaris

MEDIA UNION, University of Michigan, Ann Arbor, MI 1999-2000

Web Application Developer

Developed database-driven websites for faculty (FileMaker Web), and several research prototypes (Java, WebObjects). Demoed Apple Learning Interchange prototype at EDUCAUSE 1999. Taught faculty/staff enrichment courses and mentored staff.

Technologies: Java, WebObjects, FileMaker-Web, Mac OS X.

OFFICE OF INSTRUCTIONAL TECHNOLOGY

1998-1999

Web Application Developer

Designed and developed database-to-web applications for in-house and faculty clients (FileMaker Web, Perl). Taught classes to faculty and staff.

REBUS, INC., Ann Arbor, MI

1997-1998

Software Developer and Web Consultant

Turned prototype for creating student assessments into full-featured commercial product sold to school districts all over the United States.

Created Rebus' first software application, earning the company years of revenue. Produced sophisticated functionality from simple programming tool (FileMaker Pro).

UNIVERSITY OF MICHIGAN, Ann Arbor, MI

1992-1997

SCHOOL OF EDUCATION

Computer System Consultant
Visiting Research Investigator

1994-1997

1992-1994

DEPARTMENT OF COMPUTER SCIENCE

1990-1992

Research Associate

EDUCATION

M.S., Computer Science, University of Michigan, Ann Arbor, MI

1990

B.A., Computer Science, Chatham College, Pittsburgh, PA

1988

All advanced C.S. coursework, guided research Carnegie Mellon Univ., Pittsburgh, PA

1988