John M. Flinchbaugh

john@hjsoft.com   27 Oakgrove Ln Millersville PA 17551   717.808.0917

EXPERIENCE

- **Contractor**, November 2014–Present. e&e Consulting Services / PennState Hershey Medical Center. Hershey, PA.

  - Updated, maintained, and replaced legacy Java web applications for identity management with modern Grails applications.

  - Replaced an old batch identity management system based on Perl and Java with a new system based on Groovy frameworks and script applications running on Windows and Solaris.

  - Introduced automated testing using Spock, Geb, Webdriver, Gradle, and Jenkins for web applications and batch jobs based on Java, Groovy, Grails, and LDAP.

  - Mentored team members on best practices in test-driven design for command-line and web environments.

  - Lead the transition to an Agile/Scrum development process using JIRA and served as a scrum master for 2 development teams.

- **Software Engineer**, May 2012–October 2014. Learning Sciences International, Mount Joy, PA.

  - Introduced automated tests for our hosted web application based on Grails, Spock, Geb, Webdriver, Bamboo, Jenkins.

  - Mentored and lead a scrum team in Groovy, Grails, test-driven design, and executable documentation.

  - Developing new features, fixing bugs in Groovy/Grails, and Spring web applications backed by MongoDB and PostgreSQL.

  - Assisted to automate management and deployment of applications in Linux/AWS.

  - Built load tests for our web applications with JMeter and custom Geb/Webdriver scripts.

  - Built a data warehouse on PostgreSQL with ETL from MongoDB for reporting with Pentaho and custom solutions.

- **QA Automation Engineer**, July 2010–May 2012. eBay Enterprise / GSI Commerce, King of Prussia, PA.

  - Wrote functional tests and browser automation in Java, TestNG, Selenium WebDriver, Groovy, and Geb to test mobile e-commerce web applications (for smart phone, feature phone, and keitai).

  - Enhanced an existing functional test framework to support desktop and mobile web applications.

  - Determined new approaches for automated testing web applications for mobile.

- **Senior Software Engineer**, July 2007–May 2010. AOL MapQuest, Lancaster, PA.

  - Implemented corridor search and refined other spatial searches in SOLR and Lucene full-text search engines.

  - Extended and redesigned the XML middle tier service to integrate search engines, mapping components and enhanced data sources to provide a complete set of search capabilities needed by MapQuest.com website and mobile products built on Tomcat, XStream, Java, and Linux.

  - Introduced and refined the test-driven development process using continuous integration servers running unit tests in JUnit, and producing test coverage and performance metrics with Cobertura and JMeter.

- – Worked closely with QA team members to build powerful automated tools based on Fitnesse, Groovy, Grails, and HttpClient to test our XML-based, middle-tier software.
  - – Mentored and trained team members in test-driven design, refactoring, maintaining object-oriented software, and agile project structure through pair programming, code reviews, and documentation.
  - – Developed system for merging business data from multiple sources and loading it into various search engines using Bash scripting, Java, Ruby, Groovy, JPA, Hibernate, and MySQL.
  - – Managed source control (branching and merging) across multiple projects and code releases with Subversion.

- **Java Programmer**, February 2003–July 2007. Administrative Offices of Pennsylvania Courts, Mechanicsburg, PA.

  - – Redesigned and extended the Java middle tier of the Pennsylvania Court of Common Pleas court management system based on XML, JDBC, T-SQL, and EJB running on Sybase EAServer connecting to Sybase SQL Servers on Solaris.
  - – Increased long-term maintainability by extensive refactoring into reusable frameworks and introducing a common build system based on Ant.
  - – Introduced concurrent, message-based processing to the system that transforms data from legacy court systems into the current state systems using Java, message-driven EJB (MDB), and T-SQL.
  - – Trained and mentored team members on new frameworks, unit testing, and test-driven design.
  - – Supported production logging and alerts using Solaris shell scripting, Perl, and HP OpenView.

- **Senior Programmer/Analyst**, May 2000–February 2003. Educators Mutual Life & IBSi, Lancaster, PA.

  - – Designed and built a CRM portal for insurance brokers based on J2EE.
  - – Built a desktop application to manage insurance claims using Java, Swing, and DB2 (on AS/400).
  - – Trained team members in J2EE, object-oriented design, and CVS source control.

- **Student Unix Administrator and Network Analyst**, March 1997–May 2000. Millersville University, Millersville, PA.

  - – Maintained Solaris, HP-UX, and Linux workstations and servers for the Computer Science and Networking/Computer Services Departments of Millersville University.
  - – Installed network hardware and built monitoring tools.

- **Volunteer Fire Fighter**, April 1991–May 2000. Yorkana Community Volunteer Fire Company, Yorkana, PA.

  - – Custom reporting software, emergency service, fundraising.

EDUCATION

- **Millersville University**. Bachelor of Science in Computer Science. May 2000.

- Ross, Paul, R. Webster, T. Bailey, S. Conrad, M. Fiorill, J. Flinchbaugh, E. Velkly, "Controlling a Pepsi Vending Machine over the World Wide Web Using Java," *Proceedings of the International AACE WebNet98 Conference*, Orlando, Florida, November 7–12, 1998.

- Webster, Roger, P. Ross, T. Bailey, S. Conrad, M. Fiorill, J. Flinchbaugh, E. Velkly, "Controlling a Java Enabled Pepsi Vending Machine over the World Wide Web", *Proceedings of the 25th Annual Conference of the IEEE Industrial Electronics Society IECON '99 Conference*, San Jose, California, November 30–Dec. 4, 1999, Vol. 1, pps. 86–90.