John M. Flinchbaugh

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EXPERIENCE

- **Many Clojure Projects on GitHub**, 2018–current. Personal.

  - Server-side with http-kit, Ring, XTDB, PostgreSQL, EDN, JSON, XML.
  - Front-end with ClojureScript, React, Reagent, Helix.
  - Testing with clojure.test, React Testing Library, Etaoin, embedded databases.
  - Deployment to web, mobile web, static content, Linux CLI & services with deps.edn, shadow-cljs, Leiningen, Git, Docker, Make, Bash.
  - https://github.com/jflinchbaugh?tab=repositories&language=clojure

- **Senior Data Engineer**, April 2019–August 2025. Sonatype. Remote.

  - Maintained data pipelines and support tools used by researchers for cataloging open source libraries across multiple ecosystems using AWS, Databricks, Spark, Java, Python, Scala, and Clojure.
  - Extensively reviewed others' code for correctness, quality, and future maintainability.
  - Upgraded, and maintained software dependencies to remediate security vulnerabilities.
  - Packaged applications for deployment by consumers with Docker, Podman, Helm, Kubernetes.
  - Reviewed, tested, and built integration features for development and deployment platforms: Java, Groovy, Javascript, Typescript, Jenkins, Azure DevOps, IDEA.
  - Certified Scrum Master for my team and others.

- **Contract Software Engineer**, November 2014–January 2019. e&e Consulting Services / PennState Hershey Medical Center. Hershey, PA.

  - Served as Scrum Master to transition teams to Agile/Scrum using JIRA.
  - Introduced automated testing using Spock, Geb, Webdriver, Gradle, and Jenkins for building and testing web applications and command-line tools.
  - Mentored on test-driven development (TDD) and functional programming in Groovy.
  - Replaced legacy Java applications with a modern Grails, Groovy, and Javascript.

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

  - Introduced automated testing and test-driven development (TDD) for web application based on Grails, Spock, Geb, Webdriver, Bamboo, and Jenkins.
  - Built load tests for 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.

  - Built functional tests for browser automation in Java, TestNG, Selenium WebDriver, Groovy, and Geb to test mobile e-commerce web applications (for smart phone, feature phone, and keitai).
  - Refactored and enhanced existing functional test frameworks for streamlining test development and to support testing desktop and mobile web applications.

- Supported an agile team doing mobile web development as a full-time integrated team member.

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

  - Introduced and supported continuous integration, unit testing (JUnit), test coverage (Cobertura), performance metrics (JMeter), and code review for quicker, more reliable development and deployment.
  - Worked closely with QA team members to build automated test tools based on Fitnesse and Groovy.
  - Developed an ETL system for merging and loading data into search engines using Bash, Java, Ruby, Groovy, JPA, Hibernate, and MySQL.

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

  - Redesigned and extended the Java EE middleware for the court management system.
  - Increased long-term maintainability through refactoring into frameworks and introducing a common build system.
  - Trained and mentored team members on new frameworks and unit testing.

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

  - Designed and built a CRM portal for insurance brokers based on Java EE.
  - Built a desktop application using Java, Swing, and DB2.
  - Trained team members in Java EE, object-oriented design, and 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.
  - Installed network hardware and built monitoring tools.

EDUCATION

- **Scrum Alliance**. Certified Scrum Master. 2022–current.

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

- **Publications**

  - 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.