

Evan P. Mills

Passionate Principal Software Engineer with over 39 years of hands-on experience, dedicated to staying at the forefront of cutting-edge technologies. Renowned for expertise in software engineering, excels in designing and constructing innovative solutions that meet and exceed client expectations. With a dedication to mentorship, has empowered numerous individuals in mastering the craft of software development, embodying a commitment to fostering excellence and continuous learning in the field.

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📍 Cincinnati, OH

🌐 <https://www.linkedin.com/in/epmills/>

WORK EXPERIENCE

Fidelity Investments, Covington, KY

Senior Manager, Digital Marketing Automation

Nov 2024 - Present

- Developer and technical advisor on team migrating an existing public-facing website from Salesforce Marketing Cloud to Adobe Experience Manager (AEM).
- Wrote Java use models for AEM components including JavaDoc and complete unit tests.
- Introduced Architecture Decision Records (ADRs), documenting major decisions and their rationale.
- Developed and documented a tool that standardized members' git configuration.
- Guided the team's git processes including proper git hygiene, branching and merging techniques.
- Standardized the processes by which new AEM components are created and deployed, crafting process flow diagrams and translating them into Jira story templates.
- Enhanced the Webpack build process to standardize how AEM client libraries are generated and shared by multiple teams within a single AEM application.

Principal Software Engineer

Jun 2015 - Mar 2024

- Mentoring junior developers in software best practices.
- Running weekly technical meeting within engineering chapter.
- Building gamification system to award badges to customer using Localytics, Java, GraphQL, DynamoDB and RDS.
- Built with 10+ teams an IOS mobile application in Swift/UI to help younger investors manage their money.
- Implemented in Java a GraphQL API to record and recall customers' feelings regarding their finances.
- Developed and deployed several AWS Lambda functions in Java and NodeJS that integrate SQS, S3, DynamoDB and Kinesis.
- Wrote a Java library to handle properly partially-successful SQS events incorporated by other teams
- Served as technical lead for web application that services over 10,000 Fidelity representatives.
- Worked as a tech lead within a small team to implement a new Kafka-based microservice workflow platform.
- Designed and implemented core libraries in both Java and Javascript (along with robust JUnit/tap and unit tests) that provides common functionality for around 20 Java and NodeJS services.
- Wrote Swagger-based REST API providing disposition of workflow events in Java, Spring Boot, Kafka and Cassandra.
- Active member of the platform guild that provides architectural and development direction for nine semi-autonomous teams.
- Introduced Ansible to the platform team so that production and non-production Kafka and Minio environments are configured consistently.
- Introduced Minio to the platform team, providing for in-house object storage today that can easily transition to AWS S3.
- In a few weeks, steered one project's status from red to green by guiding the team to cleaner coding and version control practices
- Spearheaded and coordinated with team to refactor monolithic Java application into core and functional area components.
- Containerized application and database into Docker affording team ability to test numerous combinations of application and database schema versions.
- Adapted a Java Spring web application to call a REST-based workflow automation service, allowing two customer transactions to be processed rapidly and at reduced cost to the business.
- Integrated Slack bot into application and demonstrated to CIO of business unit.
- Developed scripts that programmatically identified insecure URLs within over 120 binary forms, reducing business risk.

- Updated several HTML forms and PDFs using Quadient Designer and Inspire Content Manager.

Senior Software Engineer

Senior Software Engineer

Jan 2012 - Jun 2015

- Lead developer on enterprise document storage and governance SharePoint implementation.- Developed master and content pages in SharePoint Designer 2010/2013 and C# components.
- Built much of the initial infrastructure for the project using on-demand virtual machines, installing Windows Server, SharePoint and other required software. Set up machines for eight developes and three non-production environments.
- Major player obtaining, installing and configuring Metalogix StoragePoint solution as well as working with the vendor regarding licensing.
- Worked to integrate SharePoint with existing Documentum content using CMIS connector.
- Provided Documentum Java development and support. Senior Consultant Jul 2007 - Jan 2012
- Created a Spring Web Services-based web service to provide a way for external systems to query lookup lists and post data to an existing web application. Wrote the XML schemas that define the web services' endpoints and data structures, developed the client context XML files that declare the message factory, marshaller, request and response classes. Employed the Maven JAXB plugin to autogenerate the web service classes based on the schema definitions. Added major functionality to an existing web application to allow quality assurance personnel to capture and analyze auditing of the main image capture system. The new functionality allows users to enter audits and issues communicated from business partners.
- Converted several web applications that have historically been built using custom Ruby scripts to employ Maven. Developed 100 pages of use cases documenting the processes of a moderately-sized web application. Developed numerous enhancements and fixes to a large, internal image capture and workflow system.
- Developed ten major updates to three internal web applications responsible for tracking archived documents, tracking check deposits and printing PDF forms. Responsibilities included requirements gathering/documentation, implementation, unit/systems testing, working with Quality Assurance to correct defects, coordinating installations with Release Engineering and supporting production installations. Participated in over a dozen weekend installations.
- Developed validation materials, performed technical validations of custom code and database changes, worked with operations personnel to scan documents and validate newly-installed functionality.

The Kroger Company, Cincinnati, OH

Software Developer

Oct 2006 - Jun 2007

LexisNexis, Springboro, OH

Software Developer

Nov 2003 - Sep 2006

The Kroger Company, Cincinnati, OH

Software Developer

Apr 2003 - Nov 2003

The Sant Corporation, Cincinnati, OH

Software Developer

Jan 2003 - Apr 2003

Dial-n-Document, LLC, Cincinnati, OH

Software Developer

Dec 2001 - Dec 2002

Kendle International Inc., Cincinnati, OH

Software Developer, Project Manager, Support Technician

Feb 1997 - Nov 2001

Western-Southern Life Insurance Company, Cincinnati, OH

Software Developer and Technical Support Engineer

Jul 1996 - Feb 1997

LexisNexis, Springboro, OH

Software Developer

Mar 1996 - Jul 1996

Electronic Data Systems Corporation, Fairborn, OH

Software Developer

Dec 1994 - Mar 1996

Copeland Corporation, Sidney, OH

Software Developer

May 1993 - Nov 1994

Marion Merrell Dow, Cincinnati, OH

Technical Support Engineer

Dec 1992 - May 1993

Zonic Inc., Cincinnati, OH

Software Developer

- Software Developer Oct 1991 - Mar 1992

Illinois State Water Survey, Champaign, IL

Software Developer

Jun 1986 - Sep 1991

EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science (B.S.) in Mathematics and Computer Science - 3.19 GPA - 3.19 GPA

May 1988

PROFESSIONAL DEVELOPMENT & TRAINING

Adobe Experience Manager | AEM Developer Masterclass (Udemy)

Feb 2025

Practical Integration Testing using Testcontainers (Udemy)

Jul 2024

Working with Design Patterns in Go (Golang) (Udemy)

Jul 2024

HTMX - The Practical Guide (Udemy)

May 2024

Fullstack Development with Angular17 SpringBoot3 Bootstrap5 (Udemy)

May 2024

AWS & Typescript Masterclass - CDK, Serverless, React (Udemy)

May 2024

Certified Developer on Apache Cassandra (O'Reilly Media)

Sep 2016

Certified Scrum Master (Scrum Alliance)

Apr 2015

M102: MongoDB for DBAs (MongoDB, Inc.)

Nov 2013

M101JS: MongoDB for Node.js Developers (MongoDB, Inc.)

Oct 2013

SKILLS

Java/JUnit ●●●●●

- Languages: C, CQL, Go, Java, JavaScript, Shell Script, Swift
- Web: Astro CSS HTML JSP NodeJS SwiftUI
- Testing: JUnit Jest XCTest tap
- Data & Storage: Cassandra, DynamoDB, Kafka, MongoDB, S3/Minio, SQL, SQLite
- DevOps: Ansible, AWS/CFT, Docker/Compose, Jenkins, SSH/SCP, uDeploy
- Version Control: Git, Subversion, TFS
- Operating Systems: Linux/Unix, macOS, Windows

PUBLICATIONS

- Mills, E. P., & Knapp, H. V. (1989). The Illinois Streamflow Assessment Model: Version 3.0, User's Guide-. Champaign, Illinois: Illinois State Water Survey. Retrieved from <http://hdl.handle.net/2142/4896>
- Mills, E. P., & Knapp, H. V. (1991). The Illinois Streamflow Assessment Model: Version 3.2, User's Guide. Champaign, Illinois: Illinois State Water Survey. Retrieved from <http://hdl.handle.net/2142/4892>
- Schock, S. C., Kilgore, T. J., Stover, M. E., Rosenbaum, P. B., Benefield, M., & Mills, E. P. (1986). Enhancement of the HWRIC Database -- 1986. Champaign, Illinois: Hazardous Waste Research and Information Center. Retrieved from <http://hdl.handle.net/2142/2592>
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Schock, S. C., Peyton, M. M., & Mills, E. P. (1988). Enhancement of the HWRIC Database : Year 2 : With an Evaluation of Database Content. Champaign, Illinois: Hazardous Waste Research and Information Center, Illinois State Water Survey. Retrieved from <http://hdl.handle.net/2142/1909>