

JOE COMBS

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PROFESSIONAL BACKGROUND

Mr. Combs has over 25 years of experience as a senior architect and developer with extensive experience in all phases of the software development lifecycle, configuration management, deployment, and automation. He has guided teams through proof-of-concept efforts as well as the implementation of enterprise scale platforms and software. Joe has led the design, development, and implementation of creative solutions in a variety of industries, utilizing agile principles to deliver value early and often. With his strong technical background, Mr. Combs can work effectively with cross functional teams across the enterprise as well as leadership and business stakeholders to create innovative solutions to critical business challenges.

An avid learner and teacher, Joe has a passion for sharing what he knows and enabling others to succeed. He has served as a guest lecturer at Northern Kentucky University and has spoken at the Agile Cincinnati monthly meetup, the Cincy Deliver conference, and other local events. His ability to adapt to new tools and environments and to quickly gain understanding of the business problems at hand makes him an asset to any project.

SELECTION OF RELEVANT EXPERIENCE

Cloud Architect and Developer for Loan Management Systems at a Financial Services Provider

Mr. Combs worked to integrate a third-party loan management system into the client's existing application portfolio using AWS Lambda based middleware with S3 storage as well as SNS for notifications and SQS queueing. This was implemented in typescript using node.js with the Serverless Framework.

Architect and Lead Developer for Customer Loyalty at Fortune 20 Grocer

Mr. Combs designed and implemented a customer loyalty platform including components to look up customer cards and associated coupons, points, and messages and a real time promotion processing engine to deliver applicable coupons to the point of sale. This new system utilized Internet of Things (IoT) technologies to live stream events and cashier actions from the store. Mr. Combs also created a set of python-based utilities to observe in real time the messages being produced by the point-of-sale terminals and capture for later analysis and replay in a test environment. His work included architecture definition to support this new platform as well as requirements gathering and documentation as user stories. Mr. Combs also mentored multiple development teams while preparing this product for an enterprise-wide deployment in more than 3000 stores.

Lead Developer and Business Analyst at Vision Insurance Provider

Mr. Combs designed and implemented key components of a provider claim submission and membership/HR portal as part of the migration to a new data storage platform. This included gathering of requirements and documentation as user stories as well as architecture work to support this new platform. At the same time Mr. Combs was also able to provide guidance and expertise with the team's transition to a more agile methodology.

Industry Experience

- Retail
- Healthcare
- Insurance
- Financial Services
- Call Center CRM
- Telecommunications
- Speech Recognition / Natural Language Understanding
- Manufacturing - Aviation
- Energy Production
- Non-profits

Functional Experience

- Solutions Architecture
- Technical Lead
- Internet of Things
- Business Requirements Definition
- Data Modeling (RDBMS and NoSQL)
- Web Applications
- User Interface Design
- Agile Transformation
- Test Automation

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SELECTION OF RELEVANT EXPERIENCE

Technical Lead for Content Management System at Fortune 500 Laboratory Services Provider

Mr. Combs developed key components of a content management system used by both patients and physicians to interpret lab results. This system provides a cutting-edge user experience through the creative use of data visualization and multimedia components to help patients and providers better manage their care. Mr. Combs led the design and implementation of a system to generate new lab orders based on results being viewed, a key component in the widespread adoption of this new platform. This involved working closely with the business in design sessions to ensure pain points would be resolved and established processes from the paper lab order world were adhered to.

Architect, Project Lead, and ScrumMaster at Electronic Medical Records Solution Provider

As a member of a high-performing agile development team (scrum), Mr. Combs developed several key components and interfaces of an electronic medical record application used by physician's offices to achieve compliance with meaningful use initiatives put forth by the federal government. Roles included data analysis, architecture of interfaces for direct messaging (secure email), billing and medical systems coding. Working with business stakeholders, Mr. Combs identified systems and processes to ensure widespread adoption of these features. Working as a scrummaster, Mr. Combs managed backlog creation and grooming, requirements gathering and user story creation, status reporting and the management and resolution of obstacles for the team, estimating and prioritization.

Developer for Geocoding at Vision Insurance Provider

As part of an upgrade to a third party vendor's geo-data tool, Mr. Combs re-designed the address lookup, location search, and map image generation portion of this insurance company's doctor and retail location search subsystem. This involved enhancements to the client's GIS interface, scalability improvements to the map image generation logic, and complete load testing to ensure satisfactory performance.

Developer for Sales Contract Data Management at Fortune 50 Medical Supplies and Device Manufacturer

Mr. Combs designed and implemented several features as part of a J2EE application to manage sales contract data for a major healthcare company. Mr. Combs provided application and database design and development. This included Java/JSP development as well as data modeling and some PL/SQL stored procedure work to implement critical business logic. Mr. Combs also supported administrative needs for the system testing and user acceptance phases of the project and authored significant portions of the user manual for the application.

Solutions Architect at Aviation Manufacturer

Mr. Combs served as solutions architect on 12 startup projects in the aviation and energy manufacturing space including contractual services modeling, supply chain/pricing, order entry, quarterly financial reviews, export-controlled collaboration using Documentum, and time reporting. This involved configuration of applications in JBoss and WebLogic environments, specifying RDBMS (Oracle) needs, ensuring compliance to corporate technology standards, and guiding project teams through the architecture related deliverables in the client's project management methodology.

Technology Experience

Languages: Java, C++, Typescript, Python, PHP, Perl, Bash, HTML/CSS, PL/SQL, CQL, Javascript, jQuery, XML

Technologies: Spring Boot, Pivotal Cloud Foundry (PCF), Kubernetes, Amazon Web Services (AWS), Eureka Service Discovery, MQTT, IBM MessageSight, Paho, Netty, REST, MySQL, Oracle, Cassandra, DB2, HazelCast, Dynatrace, Apache, Tomcat, Maven, Gradle, Git, Unix/Linux, Windows, macOS

Certifications

- Professional ScrumMaster (PSM I)
- Java

Education

- M.S. – Computer Science, Northern Kentucky University
- B.S. – Computer Science, University of Cincinnati