**MICHAEL W. SOMERS**

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**SOFTWARE APPLICATION DEVELOPER | APPLICATION SECURITY CHAMPION**

**TECHNICAL SKILLS**

Languages Java, C, C++, Perl, PHP, JyThon

J2EE Technologies JSPs, Servlets, JMS, JDBC, JNDI, JTA, AJAX, JDBI

Testing Frameworks Mockito, JUnit, Protractor, Jasmine, Cucumber, Selenium

WebService Technologies JAX-WS SOAP, JAX-RS REST, Spring-WS

Web Application Frameworks Struts, Spring Framework

Markup Language s XML, XSLT, HTML, DHTML, JavaScript, CSS

JavaScript Frameworks ExtJS, jQuery, YUI, AngularJS, Typescript, Node.js, ReactJS

IDEs Eclipse, NetBeans, IBM Rational Application developer, IntelliJ, VSCODE

Databases Oracle, Sybase, MySQL, Neo4j, Cassandra, DB2

ORMs and Persistent Frameworks Hibernate, JPA, MyBatis

Application Servers IBM WebSphere, Tomcat, Jetty

Application Security Tools HP Fortify Audit Workbench, Microsoft Threat Modeling Tool, SecureAssist

Version Control Tools Bitbucket, GIT, SVN, ClearCase

**PROFESSIONAL CERTIFICATIONS/ TRAINING / EDUCATION**

**Application Security Champion Conflict Resolution Management Leadership Academy**

**Bachelor of Science in Electrical and Computer Engineering, The Ohio State University, Columbus, Ohio**

**PROFESSIONAL EXPERIENCE**

**JPMorgan Chase, Columbus, Ohio 2018 – Present**

**Contractor JEE Application Developer**

Participate in end-to-end development lifecycle activities, including design, coding, testing and deployment activities. Develop SOAP/REST based web services to expose core payment functionality to JP Morgan Chase consumers in a high-volume, high availability application of consumer business banking. Deliver project milestones on time and within budget.

**PROJECTS:**

**MMS – Money Movement in (BCB) Business and Commercial Services**

I designed, developed java APIs and, support financial applications that executes jobs, displaying and exposing secured access to a profile within the BCB LOB Money Movement Services. I wrote java code, stored procedures, and cucumber JUnit test cases in each of our two weeks agile sprints. I contributed new tooling & configurations, deprecating SoapUI for Postman usage.

**ACH Batch Type Transactions**

As a Senior Java Developer, I refactored components of a Multi Billion application that schedules’ Employee payrolls, ACH vendor payments and Reversals. I wrote and executed hands on implementations, backend java coding, an enhancement and, new ACH batch Type scheduler, scheduling the new Collection services. This asynchronous scheduler is backed by MQM, Spring framework and various enterprise processes, executed from RESTful WebService service calls. The exposed endpoints for both the batch files uploaded and, the online request are, consumed by controllers to initiate the process. A key and vital component in the processing of the upstream orchestrations before the national clearing house settles the financials for delivery. Application performance tuning and memory management knowledge applied to SDLCs.

**Fifth Third Bank, Cincinnati, Ohio 2018**

**Contractor IT Application Development**

Fifth Third’s Information Technology (IT) group leads the industry in efficiently delivering the solutions and services customers rely on. Fifth Third created a business-focused team that drives significant value while building customer-centric services.

**PROJECTS:**

**Application Upgrade Migration**

As a full stack senior java application developer, in a high performance team, over two weeks agile sprints.

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We migrated and upgraded the JEE ReactJS applications, using typescript best practices, which primarily provides optional static typing of classes and interfaces, with the benefits that enable IDEs to offer a richer environment for spotting common errors before compilation. This project for the Open Consumer Group/LOB digital experience, serviced secure and unsecure loans, of various flavors for credit cards and lending applications, that is accessible to it consumers from mobile and desktop devices.

**Early Access**

Best in class, a more robust and fair alternative to the industry programs like pay day lending loans. Customers now have the ability to meet their financial needs from and within a fair secure digital experience, effortlessly and confidently. I developed responsive UIs components, REST controllers, service layer implementations and interfaces, delivery a rich enjoyable experience for both mobile and desktop users’ experiences.

**Fiserv Funding – A real time fund now option use of DataPower**

I developed responsive UI, enterprise REST APIs and backend services integrated with the trusted Fiserv responses. Responses consumed to generate appropriate responses for the UI displays. Client applications are process in real-time to create a vibrant, timely and satisfying experience with the excellence customers come to expect. I also refactored the entire UI application html table layout, using DIVs and, media with a mobile first design approach, making for a more responsive presentation.

**JPMorgan Chase, Columbus, Ohio 2014 – 2017**

**Senior Software IT Application Developer, 2016 – 2017**

Global Identity and Access Management (GIAM) organization within CTR provides access control governance and Identity services for all lines of business (LOBs) globally, providing the right access, to the right people, at the right time, for all.

**PROJECTS:**

**Cloud Computing/Gaia**

Developed and deployed the first prototype to JPMC internal cloud infrastructure for our team. This was a REST web Service, event handler and observer for solving the processing of the many actions triggered within the enterprise. This prototype would reduce duplications; help solve orchestrations between systems, promotes cost savings and security access with efficiencies.

**GROOT/Graph Database, Master Catalog and Data Browser**

Help developed, and enhance this application, a graphical representation of the firm access, privileges and technology stack. Implemented the data quality service code, the server side code that respond to the UI layer (a dashboard component) displaying the data being processed throughout the application. This application integrates and employs Oracle, RabbitMQ, Datastax driver for performance, Java8, Cassandra and the latest Spring Boot version. We implemented the master catalog services which handles adding and removing of associating tags to a technology. Using Node.js, protractor and selenium test, I developed UI automation scripts for QA (quality assurance) to help with manual testing and validations.

**Senior Software IT Application Developer, 2014 – 2016**

Senior Developer with the Core Components and Architecture (CCA) group within the Technology Asset Management Division. Build solutions, including new features from scratch, fixing old issues while working with new technologies.

**PROJECTS:**

**Server Migration/ Application Security**

Teamed with architects to design and solidify the Infrastructure Design Document (IDD), required by Global Technology Infrastructure (GTI) approval process. Contributions in the design, the white board participation, disk usage, memory allocation, required capacity, work to be done, assumptions and application changes. Changes that was necessary in the remediation strategies and deployment processes during upgrade. Hands-on development, build and deploy all applications employed by the team. Responsibility includes all deployment phases and application remediation, Black Duck, SSAP violations and OWASP top10 remediation. Utilized HP Fortify analyzers for data flow, control flow, semantic, structural, configuration, and buffer usage with respect to the security vulnerabilities in our software code, significantly lowering our exposure scores.

**SSL Security Issues and Remediation**

Organized and chaired meetings, discussed plans and make important server changes. Server changes that help address important data security and integrity against data breaches, attacks and vulnerabilities. Delegated responsibilities and engage vital resources like Middleware Services, VP’s and AD managers. Configure and deploy context file changes to enable correct access from http to https resolution and aliasing. Provided extensive configurations in the IBM Web Sphere Application server Version 6.1 & Version 8.5.5.5 for the Asset

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Management Exception and Reporting tool, which is a tool in the portal to various applications within the enterprise. Spring beans configuration, Action classes, User interface (UI) updates, shell scripting and knowledge sharing. UM queues configuration that partnered with remote queues for message onboarding and message details. Enhanced current applications, i.e., added the first REST Web service capabilities, leveraging the current application code and maintaining current application (BAU) business as usual. External teams and clients can now interact with Oversight functions directly through Web service API calls.

**Nationwide Insurance Company, Columbus Ohio 2012 – 2014**

**Senior Developer IT Application**

Develop application enhancements that improved user experiences and usability within the Customer Service & Billing Team. Daily duties included interaction with the Enterprise Content Management (ECM) System for support and development

**PROJECTS:**

**Efile**

This intranet site, a UI used by the Underwriters, Processors, Advisors, Affiliates and Business Partners for informational purposes, task, document workflow and updates of Commercial Insurance Plans and Contracts. This application employed several technologies that I have worked on and implemented, design patterns such as Data Access Object (DAO), Service Locator and Data Transfer Object (DTO). Modified and updated the Struts MVC Architectural Pattern Frameworks, action classes, JSP pages, Form Beans, FreeMarker templates and XMLs transformation files. Some technologies were pre-existing a custom design that was delegated through an in-house Tritek Framework, so leveraging of the existing technologies and development was of high importance.

**Efile Interfaces**

Batch applications, executed in the background on task, images and documents used in the workflow. One of the processes Expiration Batch sent a new feed from our mainframe that required major updates. Added new DTOs, tables and columns with Hibernate mapping and, processing logic to modify the new properties and information to the workflow map for which, further processing in our Distribution queue was needed. Updates were also made to finalize the destination in our performer: this enhancement reduced manual work for our processors and Business Partners.

**Nationwide Insurance Company, Columbus Ohio 2012**

**Contractor**

Responsibilities included coordinating, managing and migrating applications through multiple test and production environments. Successful releases required coordination and administration of tools (Hudson) and custom in-house deployment Apps. I employed various scripting techniques: Bash and Perl. Efficient technical duties involved communication with IT Business Partners and Clients to ensure applications were deployed successfully into managed webhosting environments and servers.

**Twenty First Century Communications, Columbus Ohio 2002 – 2012**

**Software Engineer**

Led and participated in software projects, including identifying and analyzing user requirements to develop detailed design specifications for programs and program enhancements. Coordinated assigned projects for completion from beginning to end, and effectively communicated results to end users; project owners, business analysis, managers and developers.

**PROJECTS:**

**Crew Callout**

Worked in a team of three to designed and developed a web-based application that allowed users to make outbound calls and view results. We used the latest generation of open source tools and, worked on designs by integrating the Struts framework, spring framework and Hibernate. Used maven to manage, modularize and build the application in a collaborated environment. We used Hudson integration tool to configure automatic builds for the maven-based project. Customized ExtJS components and widgets by extending the base components provided by the ExtJS library. Developed direct connect, C and Java raw socket network communication programs handling server client model for WebService resources MQM and Oracle services.

**Program Function Interfaces (PFIs) and End to End (E2E)**

Software architect, defined, developed and detailed exact specifications to be used in PFIs (program function interfaces) which are bidirectional socket programs used to transfer data and modifies the IVR call flow for specific products and programs.

Designed, developed and implemented an E2E application, which constantly monitors service quality.