#  Joseph J Marini

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 **(781) 883-7533 Milford, NH** **Update: 8/01/2023**

 **UI Software Engineer, Desktop, Web, Mobile, Full Stack Java**

Experienced Full Stack Java, Front End UI software engineer with a passion for software development!
 Over 15 years of experience specialized in user interfaces (UI), developing Web, Mobile and Desktop applications.

 Extensive experience supporting UI groups and providing advanced research and architect for UI infrastructures.

 Mentor and technical lead providing direction and training for UI software engineers.

* Specialized knowledge and skills to solve advanced UI issues.
* Technical lead aptitude skills, commitment, and experience
* Extensive Java, designing and coding with emphasis on infrastructure.
* Experience creating tailored JavaScript, Typescript, Android, JSF, Swing, and Web components for UI applications.
* Ability to work collaboratively.
* Commitment to achieving project goals.
* Strong whiteboard, communication and writing skills.
* Exceptional organizational skills
* Experience teaching Java programming at the college level

**Skills**

 Languages: Modern JavaScript, TypeScript, Java, C#, Python

 Technologies: Java JDK, Java Server Faces (JSF), Tomahawk, Facelets, Tiles, JSP, GUI, Java Beans, Spring,

 Spring boot, J2EE, XML, XSLT, XHTML5, CSS, JFC/Swing, OOD, OOP, UNIX shells,

 Java Web Start/JNLP, JNI, JQuery, JQuery UI, AJAX, JQX UI, JSON/REST, Angular 7/8,

 RxJS, Protocol Buffers, ZeroMQ, React, WorldWind Web, SonarLint

 Tools: Eclipse, MyEclipse, NetBeans, NetBeans RCP, IntelliJ IDEA, WebStorm, Android Studio,

 Visual Studio Code, JUnit, Ant, Maven, Gradle, SVN, Git, Atlassian, Jira, Agile, TOAD, Firebug,

 Postman, Talend

 Design Patterns: Java design patterns, JavaScript design patterns

 Databases: MySql, Oracle 9i/10g, PostgreSQL, MongoDB, ORM Technologies: DB Magic, Hibernate

 Operating Systems: Windows, Unix, Linux, iOS, Red Hat

 Smartphone: Android

 Networking: SNMP, TCP/IP, UDP

 Browsers: Google Chrome, Internet Explorer, Fire Fox, Safari

 Web Servers: Tomcat, Glassfish, IBM WAS, WebLogic, JBoss, Apache

 **Online Training:** Node.js, Angular2+, Android, Backbone, Protocol Buffers, Spring boot

 **Security Clearance: Active Clearance TS, Active Public Trust Clearance**

**Engineering Skills**

* Technical leadwith hands on development within an agile development environment
* Advance research new technologies
* Mentoring engineers
* Assisting engineers with resolutions and development issues
* Teaching engineer’s new technologies, solutions, and software patterns

**Engineering Awards**

* 2014-2015 MIT Lincoln LaboratoryTeam Award: Airborne Geolocation Technology Development
* 2021 Booz Allen Hamilton CRAM project,HBUC wins Digital Directorate Annual Award Winners

**Teaching Skills**

* Adjunct instructor, Java programming basic, intermediate, advanced and Agile Scrum methodology.

**Education**

 M.S. Computer Science, Rivier University, Nashua, NH - Graduated Honors

 B.S. Computer Science, Boston University, Boston, MA

 **PROFESSIONAL EXPERIENCE**

**Booz Allen Hamilton Lexington, MA**

**Remote Location: Home**

**Global Defense Group (GDG)**

**Java Full Stack UI Software Engineer 09/2020 – current**

**Skills: Agile, Jira, Java, Protocol Buffers, ZeroMQ, Microservices, Rest, JavaScript,**

**WorldWind Web, Full Stack, Spring Boot**

**Detection project for the US Airforce. 09/2020 – 06/2023**

* Designed and developed protocol buffers used to communicate between internal micro services.
* Implemented communications service supporting multiple protocol messages.
* Implemented radar operations test service supporting multiple protocol messages.
* Refactored services test harness using a generic approach, allowing it to support testing multiple services.
* Researched the development of a map web application, detailing different map technology of choice.
* Implementing a map web application using World Wind Web and react.
* Participated in first data collection event at Fort Devens Military Base
* Refactored logging for all services, each logs to its own separate logging file.
* Added tool tipping support to map application, for static floating views.
* Added additional track information static view, and table paging dialog.
* Participated in second data collection event at Fort Drum NY.
* Resolved numerous Sonar Lint issues in the project, ongoing.
* Participated in second system integration event and overview.
* Continue to fix numerous issues with multiple micro services, Admin UI web application and the map UI application for each sprint.

**IBM The Weather Company Andover, MA**

**UI Software Engineer 08/2018 – 6/2020**

**Skills: Agile, Jira, Git, JavaScript, Typescript, Angular 7/8, RxJS, Full Stack, C#, High charts**

**Development Weather Company web application**

* Designed and developed graphical chart Meteogram component and widget using High charts.
* Developed agriculture component, supports 15day weather forecast and agriculture attributes.
* Added airport codes support for location search, font end and server-side rest controller.
* Added username filtering support during dashboard creation.
* Added save user context support to hourly, daily, AG view.
* Added support for min/max values for weather attributes forecast and current data panels.
* Added support for lightning panel functionality.

**Patient Keeper, Inc. Waltham, MA**

**Java UI Software Engineer** Contract **02/2018 – 05/2018**

**Skills: Java, JavaScript, Full Stack, JQuery, JSON/Rest, Backbone, Spring MVC**

**Development 9X web/mobile application**

* Refactored and fixed several issues to order list gadget.
* Added Group, Definition, and Status object support to order list gadget, edit and view mode.
* Developed backbone models for order groups, and order definitions for order list gadget.
* Wrote spring rest controllers for order groups and order definitions to retrieve data from the back end.
* Added server-side filtering for Groups, Definitions, and Statuses.

**Aptus Health Inc. Reading, MA**

**Java UI Software Engineer** Contract Winter Wyman, Waltham MA. **02/2017 – 11/2017**

**Skills: Java, C#, JavaScript, TypeScript, Android**

**Refactored QuantiaMD (https://quantiamd.com) web application JavaScript module structure**

* Refactored, collapsed duplicate JavaScript source tree structure based on platform type.
	+ Web, mobile, android and iOS platforms.
* Converted JavaScript classes to TypeScript classes.
* Re-designed application versioning system, and updated server code to support the new design.

**Massachusetts Institute of Technology Lincoln Laboratory Lexington, MA**

**Java UI Software Engineer** Contract Minuteman Group, Lexington, MA  **07/2010 – 1/2017**

**Skills: Java, JavaScript, Full Stack, JQuery, AJAX, JSON/Rest, JQuery UI, JQX UI, Android, JFC/Swing**

**Designed and developed JavaScript client models for search-based project. (Web)**

* Ported the project from using JSP’s to using JavaScript MVVM client models.
* Designed all the JavaScript client models mirroring the server-side Java objects.
* Used constructor and prototype inheritance, in addition to inheritance using JQuery for each MVVM.
* Architected and wrote all the JQuery Ajax server JSON/REST requests, for each type of model manager.

**Designed and developed task-oriented project within an eclipse environment. (Swing)**

* Task oriented project, for viewing graphical information object within a Socket GXP.
* Designed and developed multiple UI custom table views displaying task and Meta data information.
* Developed a top down flow wizard using accordion panels for task processing which displayed task states.
* **Ported task-oriented project to a Web JavaScript MVVM version using WebStorm IDE. (Web)**
	+ Added JQuery Gridx table component support.
	+ Designed Ajax support using JQuery for issuing Ajax JSON/REST request to the server**.**
	+ Implemented coordinate conversion manager supports, Degrees, Degrees Minutes Seconds

Digital Degrees Minutes, and MGRS – Military Grid System.

**Ported detection plugin project to the web, developing map application to supporting detection data. (Web)**

* Designed multiple JavaScript tree views for detection data objects, and detection image objects.

**Developed a 1.5-day course on advanced modern JavaScript**

* Developed topics on
	+ Common issues learning JavaScript, from a OOP language perspective.
	+ JavaScript objects, Constructor and Prototype inheritance.
	+ Inheritance using JQuery.
	+ JavaScript design patterns

**Developed Rich Client map application for sensing geo-land devices. (Swing)**

* Ported table architecture from the Netbeans Rich Client Platform plug-in map application.
* Added save and restore column configurations to the table architecture.
* Refactored shape and bearing generating application, rewrote all UI views.
* Refactored map layer configuration application.

**Developed Netbeans Rich Client Platform plug-in map application (Swing)**

Created base Netbeans RCP application project.

* Developed message notification manager, displays messages from client modules.
* Developed map manager and map view modules.
* Developed layers’ configuration manager, displays list of configured map layers.
* Developed generic context popup manager, objects selected, display a context menu.
* Developed check box tree architecture, which can be used with or without checkboxes.
* Re-factored several modules to use Netbeans lookup service approach for communication.
* Developed support for mapping associated objects and displayed them in a UI checkbox tree component.
* Developed table architecture allowing, editors, renderers, and bean models to be configured, and supports sorting.
* Created several new UI components, using JFC/Swing, tailored for the map application UI environment.

**Android Application Development MIT-LL**

**Android application, event reporting application**

* Developed UI for event reporting application.
* Developed common menu system infrastructure.
* Developed new transports for sending information.
* Application deployed to Boston MBTA, See Something Say Something.

**Android application, communication control and sensor entity application**

Designed, and developed UI for controller and sensor entity for tablet based android applications.

* Re-factored application messaging system to allow interoperability between Android and Windows.

**Porting Android application, communication control and sensor application to windows platform**

* Ported Android control and entity sensor application program to windows using Swing UI.
* Ported application messaging system allowing interoperability between Android and Windows.
* Designed several preference dialogs for easy configuration of both applications.

**Massachusetts General Hospital Boston, MA**

**Java Web UI Software Engineer** Contract Bridge Point Consulting Portsmouth, NH **04/2010 – 07/2010**

**Skills: Java, JavaScript, JSF, Facelets, Rich Faces, Prime Faces**

**Developed, re-factored data extraction tool, web application for retrieving patient research data.**

* Designed and implement wire frame view data flows using the Netbeans IDE.
* Research, designed and implemented table data provider for producing a dynamic JSF table.
* Designed and implemented all data provider models for UI components table and select items.
* Designed and developed UI screens using JSF, Facelets, Rich Faces, Prime Faces, JavaScript, and XHTML.

**INFOMEDICS Reading, MA**

**Java Web UI Technical Lead Software Engineer** Contract Alexander Grp Bedford, NH **10/2009 – 02/2010**

**Skills: Java, JavaScript, JSF, JSP**

**Develop medical web application for managing new pharmaceutical drug trials.**

* Developed rich client web application, using Netbeans to develop the UI and Eclipse to develop the UI models.
* Designed and developed UI screens using JSF, JSP, JSP page fragments, JavaScript, and HTML.
* Designed CSS styles allowing the implementation of table free pages.
* Designed and implemented internationalization architecture using resource bundles.
* Designed JSF backing beans to support view technology architecture.
* Designed and implemented all data provider models for UI components table and select items.

**SOVEREIGN BANK Dorchester, MA**

**Java Web UI Software Engineer** ContractModis Jacksonville, FL **10/2008 – 6/2009**

**Skills: Java, JavaScript, JSF, JSP**

**Develop financial web application assisting customer’s to opening and managing new accounts.**

* Researched development environment for the IBM WAS 6.1 server allowing teams to migrate to the latest technologies.
* Designed, architected launch mechanism using JSP and JavaScript to open a new account web application.
* Developed the base JSF backing bean architecture for all web page backing beans.
* Developed the session scope architecture object allowing all web pages to track session usage.

**BROWN BROTHERS HARRIMAN & CO Boston, MA**

**Java Web UI Software Engineer** Contract Modis Jacksonville, FL **06/2008 – 09/2008**

**Skills: Java, JavaScript, JSF, MyFaces, Tomahawk tag libraries.**

**Financial web application development**

* Developed data access object models to service SQL backend data retrieval.
* Implemented best practices for Web pages and patterns.
* Assisted engineers with issues and solutions related to developing JSF web pages.

**TELCORDIA TECHNOLOGIES, INC – New Generation Systems Manchester, NH**

**Principal Java Web UI Software Engineer** **09/2005 – 06/2008**

**Skills: Java, JavaScript, JSF, JFC/Swing**

**Developed WebTK, a web toolkit with multiple tag libraries using Java Server Faces.**

* Integrated the toolkit into Netbeans IDE allowing the development of a web application using true drag and drop.
* Architected, designed and developed Web Xng Replacement application (WXRA).
* Defined and mandated the usage of all CSS style definitions for WXRA for common look and feel.
* Added support for client side validation to the WebTK tool kit.
* Implemented selection component data providers allowing the mapping of JSF selection items.
* Designed the Java bean information architecture for the WebTK JSF components.