SWAMINATHAN PRASANNA

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# SUMMARY

Results-driven software developer with over 15 years of experience in web and application development. Proficient in full-stack development with expertise in .NET, Java, JavaScript, Angular, React, Node.js, and cloud-based technologies. Skilled in architecting scalable platforms, Agile methodologies, and building high-performance applications. Adept at leading UI development, developing backend services using Node.js/Express, and delivering intuitive dashboards using D3.js.

# TECHNICAL SKILLS

* **Languages:** C# .NET, Java, J2EE, C++, Python
* **Front-End:** React.js, Angular, Vue.js, D3.js, HTML5, CSS3, JavaScript, TypeScript
* **Frameworks:** Spring, Hibernate, Struts, AJAX, Bootstrap
* **Web Technologies:** XML, JSON, jQuery, RESTful APIs
* **Databases:** Oracle, MySQL, SQL Server
* **Operating Systems:** Windows, Linux, macOS, Android SDK
* **Tools & IDEs:** Visual Studio, Eclipse, WebStorm, NetBeans, VS Code
* **Testing & DevOps:** Selenium, JUnit, Jest, SpecFlow, Jenkins, Karma, Mockito

# PROFESSIONAL EXPERIENCE

## US Bank, Minneapolis, MN

*Web Developer* (Dec 2018 - Present)

* Lead UI development for multiple projects, estimating tasks and ensuring timely delivery.
* Developed and maintained CI/CD pipelines using Jenkins.
* Built Single Page Applications (SPAs) using Angular and React.
* Collaborated with Business and UX teams on user experience.
* Worked on AEM designer application coding to modify PDF.
* Ensured code quality through Sonar, Fortify and Blackduck scans.
* Created unit test cases using Karma and Jasmine.
* Collaborated with backend teams to integrate REST APIs.
* Lead conversion of Angular legacy application to react conversion.

**Tech Stack:** Angular, React, Bootstrap, Jenkins, JavaScript, JSON, AJAX

## Chubb Insurance, Whitehouse Station, NJ

*Senior Front-End Developer* (Mar 2018 – Nov 2018)

* Developed UI components using Angular 4/5 for an internal underwriting application.
* Created interactive charts using Chart.js.
* Managed demo to clients to showcase completed functionalities with Zephyr.
* Used Gitlab for managing the repositories.
* Led a team of offshore developers and conducted code reviews.
* Created Node.js scripts for mock APIs, testing, and local dev tools.
* Worked closely with DevOps teams to streamline build processes.

**Tech Stack:** Angular 4/5, JavaScript, HTML5, CSS3, Node.js, Chart.js

## 3M, Saint Paul, MN

*Front-End Developer* (Mar 2017 – Feb 2018)

* Designed and implemented D3.js charts for medical data visualization.
* Developed SPAs using AngularJS and improved application performance.
* Utilized SpecFlow for automated testing and data accuracy validation.
* Created Node.js middleware for smooth frontend-backend data flow.
* Optimized data handling with **server-side pagination and filtering** in Node.js.
* Created CI/CD pipelines in Jenkins.

**Tech Stack:** AngularJS, D3.js, C# .NET, HTML5, CSS3, Node.js, SpecFlow

## Thomson Reuters, Eagan, MN

*Senior Software Developer - UI* (Feb 2016 – Aug 2016)

* Built a real-time IoT data visualization platform using Aurelia and D3.js.
* Created modular and reusable UI components.
* Integrated REST APIs for dynamic data retrieval and visualization.
* Created various demo paths for end users.

**Tech Stack:** Aurelia, JavaScript, D3.js, HTML5, Foundation CSS, Git, REST APIs

## USAA – Senior Consultant, San Antonio TX, December 2014 – Dec 2015 Project 1: Employment Job Satisfaction (June 2015 – Dec 2015)

*D3 Dashboard Developer*

* Designed and created Proof of concept on the d3 Dashboard.
* Used REST web service calls to get data to the dashboard visuals in the form of JSON.
* Application works in all devices.
* Worked extensively on svg.
* Built the Single page applications on Angular.
* Developed several Python scripts for automating client data upload, parsing of complex product data and importing of various e-commerce feeds into a generic database.
* AngularJs used to developed application, Controller, Databinding, expressions, directives, filters and

other core concepts

* Developed complex PDF reporting and catalog creation module with Designer.

**Tech Stack:** JavaScript, D3 JS, REST, HTML, Bootstrap, CSS

## Project 2: Browser Independence Research, Dec 2014 – May 2015

*Senior UI Developer*

* Designed and Created Proof of concept’s (Javascript, HTML 5, CSS and Super-Web sockets) applications for the project.
* Created applications to highlights issue on existing applications.
* Researched dependencies and developed alternatives for each feature with new solution.
* Implemented effective layout using component functions in AngularJS.
* Used filters, custom directives for the better implementation of application, and bind data with model for two-way data binding using AngularJS.
* Created documentation of our proposed solutions.
* Presented solution to client.

**Tech Stack:** AngularJS, C# .Net, HTML 5, CSS

## Rolls Roys Marine, Aeroxchange, Irving, TX Aug 2014 – Oct 2014

*Software Developer*

* Created the Main HTML page for the application using **Thymeleaf**.
* Created **Rest web services** for the UI, which needs to be called based on user action.
* Wrote the **controller** classes to call **repository** to retrieve data from **Oracle database**.
* Created **JPQL queries** for independent repositories.
* Wrote JPA entity classes to store data for the database tables.
* Bootstrap used along with AngularJS for developing application

**Tech Stack:** Java 1.6/1.7, Spring MVC, Rest Web Services, JPA, Thymeleaf, AngularJS, Annotations, Hibernate, Maven, MyEclipse 2014, CSS, Agile, Oracle, SCRUM.

## USC forecasting tool, AirCom International, Irving TX Apr 2014 – Aug 2014

*Software Developer (UI Development)*

* Part of the team responsible for collecting forecasted data across various geographical locations.
* Created Java tool to render reports for all collected data across various nodes.
* Designed the application to analyze historical data and come up with a forecast for the upcoming year.
* Developed using **UNIX** Operating system.
* The code base was versioned and maintained on SVN.

**Tech Stack:** Java 1.6, J2EE, JavaScript, Oracle WebLogic Server, CSS, SVN, Agile, SQL, Oracle. Unix

## S-Gate, Securus Technology Inc, Addison, TX, Sept 2013 – Apr 2014

*Software Developer (UI Development)*

* Designed the framework for the **UI with technologies such as JSP, JavaScript, CSS and HTML 5**.
* Used **JSON** to transfer data from UI to the Application Framework, which was based on **Struts**.
* Helped in **designing and coding** the application over many Sprint cycles and coded using **J2EE technologies** like **EJBV3.0**.
* **Consumed Web Services** for validating the entitlement information for the user.
* Used **JUnit Test cases and Jasmine tool** to **validate/test** my **java/JavaScript** code and also got acquired to **Mokito test framework**.

**Tech Stack:** Java J2EE, JSP, Struts, JavaScript, Tomcat Server, Web Services, CSS, Agile, My Eclipse, SVN,

Jasmine, Agile, SQL, Oracle

## vMobile Construction, Verizon, Irving TX, Apr 2013 – Aug 2013

*Software Engineer (UI Development)*

* Participated in initial **requirement analysis** phase to gather all **Use-cases** from the client.
* Worked on sending and receiving **JSON request/responses** from Client systems (laptop or tablet) to tablet server which transmits the data.
* Used **MVC architecture** to code the entire solution. Used **JavaScript** and **HTML** for the view, **Java** for

## the Model and Controller.

* Handled various test cases from the client and delivered on time on Agile Environments.

**Tech Stack:** Java J2EE, HTML 5, CSS, JavaScript, Agile, Eclipse, CVS, Agile, MVC

## Samsung Telecom, Frisco, TX, June 2012 – Jan 2013

*Software /Commissioning Engineer*

* Generated **CORE JAVA** tools to provide the commissioning engineer with an Interface to communicate with the program.
* Developed Java tools to validate the different parameters associated with a commercial cell site.
* Developed code to check the current values present in the site from the database.
* Deployed test cases to verify the different functionalities associated with building and commissioning a commercial cell site. Used **MVC** Architecture.
* Used **Ant scripts** to verify the software that was used in the commissioning process.
* Worked on open stack technology like red hat.
* Responsible for adding neighbors, updating parameters and borders for the particular site.
* Maintain Site information in our database using Oracle.
* Troubleshoot various complications that arise in a cell site.

**Tech Stack:**Core Java 1.6/1.7, HTML 5, CSS, Java Script, Eclipse, Oracle, Red hat, Ant scripts

## Motorola Mobility, Libertyville IL, Mar 2010 – May 2012

*Android Developer*

* Developed Java Code snippets to change the automation script depending on the software version that is released. Worked on the migration from Gingerbread to Ice-Cream Sandwich (ICS).
* Developed applications to perform prolonged quality assurance with over 30 test suites.
* Experience in using tools like **PMD, Dalvik and other Testing tools**.
* Experience in developing test cases.
* Refer to the different layer logs according to the requirement in the test case.
* Extended the work to the stability automation testing. Setting up the stability rack and configure the initial settings in the rack and the phone to run the automated script.
* Customized PYTHON scripts for change in requirements.
* Participated in the team meeting and interacted with the development team and the team lead and understand the feature requirement and developed the test cases and test plan accordingly.
* Testing apps using **android** based on scripted and exploratory use cases covering all real-time user

scenarios.

**Tech Stack:** CORE JAVA, Java Script, Linux, Python scripts, HTML, PHP

# EDUCATION

* + **Master’s in Information Technology & Management**, Illinois Institute of Technology, USA
  + **Bachelor’s in Information Technology**, Anna University, Chennai, India

# CERTIFICATIONS & TRAINING

* + Microsoft Certified: Azure Fundamentals
  + Agile Scrum Master Trainings

# PROJECTS & ACHIEVEMENTS

* + Got best in us accolades from U.S. Bank
  + Developed an enterprise D3.js dashboard for USAA Business Intelligence, improving employee job satisfaction analysis.
  + Successfully converted an angular application to React.
  + Led UI migration from Kendo UI to Angular 2 for W3G Inc.
  + Created a responsive web application for Rolls Royce Marine, integrating Spring MVC and AngularJS.

# ADDITIONAL INFORMATION

* + Strong background in Agile/Scrum methodologies.
  + Passionate about UI/UX design and performance optimization.
  + Experienced in cloud-based development with AWS and Azur