

## MONICA PURUSHOTHAMAN

Senior Web Developer (9 Yrs Experience)

B.E. Computer Science and Engineering

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### OBJECTIVE

Senior Web Developer, highly skilled in designing and developing web-based applications. Pursuing a career in an organization where analytical and technical competency are recognized. Passionate about learning and an excellent team player.

### AREAS OF INTEREST

- Software Development from Design to Deployment, Web Programming Applications.
- Data Structures, OOP, UI Design Patterns, Web Server Config, Microservice Architecture.

### PROFESSIONAL EXPERIENCE: (TOTAL - 9 YRS)

- Bank Of America Continuum India Pvt Ltd (2019 – 2020) – 1 Yr
- Samsung Research & Development Institute, Bangalore (2012 – 2018) – 6 Yrs
- Cognizant Technology Solutions, Bangalore, India (2010 – 2012) – 2 Yrs

### TECHNICAL SKILLS

- **Web Technology:** HTML5, JavaScript, TypeScript, CSS3, **Node.js, Next.js, Nestjs**, AJAX
- **Languages:** C#, Java
- **Frameworks:** **Angular 2-17**, WPF, Spring Boot, Spring Framework, Ext-JS
- **JavaScript Libs:** **React**, Raphael, Corner Stone, DynaTree, jsPDF, jQuery
- **jQuery Libs:** Data Tables, jqPlot, jQuery UI, Cornerstone, Hammer
- **Cloud Technology:** Amazon Web Services **CI/CD:** Jenkins Dashboard, SonarQube
- **Servers:** IIS 10, Apache 2.2 **IDE:** Visual Studio, Eclipse, Net Beans
- **RDBMS/Tools:** Oracle 9i, 10g, MySQL 5.7 **VC:** GIT, Tortoise SVN

### EDUCATIONAL DETAILS

Year	Degree/ Certificate	Institution	CGPA / %
2010	B.E (Computer Science)	P.S.G College of Technology, CBE, India	8.6

## **Project at Bank of America Continuum India Pvt Ltd, Chennai: (2019 - 2020)**

### **1.) Quartz UI (2019-2020)**

- Quartz UI is an in-house web framework used to develop windows based native applications built using WPF.
- Created a detail plan and migrated the Quartz WIN native app to a Web UI framework.
- Mapped windows native app features to web-based application specific standards.
- Ensured the technical feasibility of UI/UX designs.
- Built reusable UI components in **React** for User data, Transfer Mode, Statement summary etc. Ensured testing and bug fixing during release phase.
- Excellent Team player with ability to co-ordinate and deliver products with high efficiency.

**Web UI:** HTML5, **React**, JavaScript, TypeScript, CSS, SCSS

**Backend:** Java

**Database:** MySQL 5.7

## **Projects at Samsung R&D Institute, Bangalore: (2012 - 2018)**

### **2.) HME- (Health and Medical Equipment) IOTA- ADNEX (2017-2018)**

- Developed the **React** based UI Console for the IOTA-ADNEX app to enable physicians to find the probability of malignancy of ovarian tumor from the input DICOM scans.
- Created **React** algorithm component to generate the probability. This algorithm is formulated by IOTA (International Ovarian Tumor Analysis).
- Created **React Bar & Radar chart components** to depict the benign or malignant probability of the tumor.
- Used **React PDF** library to save the results in the form of PDF and to print it.
- Involved in designing the entire Architecture using MVC model and fully implementing the frontend in **React**, backend in **Java**, bug fixing and successful delivery of the app.
- Have mentored interns and developed the same app as a web app using Angular.
- Used Agile/Scrum development methodologies and deployed them on cloud using AWS (Amazon Web Services).

**Web UI:** HTML5, **React**, JavaScript, jQuery, CSS, SCSS

**Backend:** Java

### **3.) HME - Remote Rendering: (2016-2017)**

Developed the Web based UI Console for the " Remote Rendering App" to enable display of the 2D and 3D fetal images and to enable user interactions on it.

- Designed the entire **React UI architecture** for this app to enable it to be used across major browsers in both desktop and tablets and create authentication services.
- Used the licensed Fovia app to enable display of the fetal images and to interact with it.
- Modularized the **React app** in such a way that it can work on desktop and mobiles seamlessly.
- Used Hammer.js to enable seamless user interactions and touch events in mobiles.
- Using the **HTML5** Canvas feature, several layouts were supported, and presets were applied on the DICOM images.
- Designing, developing and updating MySQL tables.

**Frontend:** HTML5, **React**, JavaScript, jQuery, CSS

**Back End:** Java

**Database:** MySQL 5.7

**Cloud Server:** AWS

### **4.) HME - CT Service: (2015-2016)**

Developed the Web based UI Console for the "CT (Computed Tomography) Service Application". Added Config, Diagnostics, Calibration and Reports of the CT Scan machine.

- Created custom React libraries such as Pagination lib to enable log data display.
- Created custom **React graph lib** to display diagnostics and calibration parameters.
- Created custom **React tables** to display patient info using Exam, Study and Series data.
- Created animated Radial Gauge in React to display the rotating gantry's parameters.
- Created animated **Meter Gauge in React** to display the status of the various equipment.
- Worked on Cornerstone lib to enable drawing of ROI info in the DICOM images.
- Built reusable components using React, built backend functionalities in Java and ensured testing and bug fixing during release phase.

**Frontend:** HTML5, **React**, JavaScript, jQuery, CSS

**Back End:** Node.js

**Database:** MySQL 5.1

**Cloud Server:** AWS

### **5.) Techwin - Security Camera (2013-2015)**

Involved in developing the web application for Controlling, Recording, and viewing videos from various Security Camera models.

- Developed the "Open App" application that enables the Upload, Install/Uninstall, Start/Stop and display health details of any app that can be uploaded to the camera.

- Developed the "Motion Detection" app to display video list and Play/Delete/Start/Stop videos using Angular components. Used the VLC media player's lib to stream the videos.
- Developed the backend functionalities in Java and UI functionalities in JavaScript.
- Did the upgrading and bug fixing of the "iPolis Webviewer" app that does monitoring, playback and setup of the camera.

**Frontend:** Angular, HTML5, JavaScript, jQuery, CSS

**Backend:** Java

**Database:** Oracle 10g

**Server:** Apache 2.2

#### **6.) vCDN (Hybrid Content Delivery Network) (2012-2013)**

Developed the Web based vCDN (management console - HTML5 & JS), a dynamic virtual content delivery network that connects several components such as vNode, Clients (nodes running in cloud as Amazon EC2 instances) that are controlled by a centralized controller.

**Frontend:** HTML5, JavaScript, jQuery, CSS

**Backend:** Java

**Database:** Oracle 9i

**Server:** Apache 2.2

#### **Project at Cognizant Technology Solutions (CTS), Bangalore (2010-2012)**

**7.) Sears Ecommerce Automation Development (2011-2012)** - Developed an automation tool using Selenium framework to do regression testing and monitored via the Jenkins dashboard for Sears and its affiliated websites.

**8.) Walmart OCC (Optimized Cart and Checkout) (2010-2011)** – In Walmart Checkout team, involved in the migration from Struts Framework to Spring Web flow framework.

#### **AWARDS & ACHIEVEMENTS**

- Got "**Spot Award**" for the IOTA-ADNEX project in **2018** for effectively bug fixing and supporting the Head Quarters in Korea during SQA release phase.
- Got "**Employee of the Month**" & "**Spot Award**" for the CT Scan project in **2016** for developing custom libraries in JS and for efficient project delivery.

#### **Participation In Associations in Samsung R&D Institute**

- Part of **Culture 2020 Champion** and have coordinated the induction event for 200 campus new joiners in Pegasus Institute Bangalore.
- Part of **Employee Engagement Team** and actively organized team bonding activities.