Srinivas Baipalli

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PROFESSIONAL SUMMARY

Driven **Lead Software Engineer** with over 8 years of experience in full-stack development, system architecture, and team leadership. Skilled in Angular, React, Node.js, Java Spring Boot, AWS, and Azure. Proven track record in Agile development, delivering scalable, high-performance solutions that drive business growth.

➢ Expertise in Full Stack development, system architecture, and managing high-performing development teams.
➢ Expertise in **Angular 17+, React**, **React Native, Node.js** and **Java Spring Boot**, with a proven track record of delivering scalable, high-performance web and mobile applications.
➢ Proficient in **UI/UX development** using modern frameworks and libraries, including **Tailwind CSS**, **Bootstrap**, **Material-UI**, **TypeScript**, and **D3.js**, to create responsive, user-friendly interfaces.
➢ Familiar with modern front-end libraries and frameworks such as **Svelte**, **Vue.js**, and **Lit**, with a foundational understanding of building reactive and reusable web components.
➢ Skilled in integrating and consuming **RESTful** and **GraphQL** APIs while effectively managing UI state using **NgRx**, **Redux** and **Zustand** libraries to develop scalable, high-performance frontend applications.
➢ Expertise in implementing end to end test automation frameworks using tools like **Selenium**, **Playwright** and **Cypress** seamlessly integrated into **CI/CD pipelines** to enhance software quality and accelerate delivery.
➢ Skilled in building and deploying cloud-native applications on **Microsoft Azure** and **Amazon Web Services (AWS)**, with hands-on experience in **CI/CD pipelines** and **DevOps** tools like **Jenkins** and **GitLab**.
➢ Passionate about mentoring and guiding junior developers, fostering collaboration, and driving innovative solutions.

TECHNICAL SKILLS

Frontend	**Languages:** JavaScript, TypeScript, ES6, HTML5, CSS3, JSON, AJAX
	Frameworks: Angular 17+, React, React Native, LIT, Tailwind CSS, Bootstrap, Material-UI, D3.js
	State Management: NgRx, Redux, Zustand
	Testing Frameworks: Cypress, Playwright, Jest, Selenium
	Tools & Platforms: Webpack, Parcel, npm, Figma
Backend	**Languages**: Java, Python, SQL, C#
	Frameworks: Java Spring Boot, Node.js, .Net Entity
	Web Services: GraphQL, REST
	Databases: MS SQL Server, PostgreSQL, MySQL, MongoDB
	Tools & Platforms: Postman, SPLUNK
DevOps	**Cloud Services:** Amazon Web Services (AWS), Microsoft Azure Cloud
	Tools & Platforms: Jenkins, Docker, Git, GitHub Copilot, Git Actions, SonarQube, Datadog, Rally

EDUCATIONAL

Master of Digital Science, Aug 2016 - Dec 2017
Kent State University, Kent, Ohio
Computer and Information Sciences **GPA: 3.70**

Bachelor of Technology, July 2012 - May 2016
Jawaharlal Nehru Technology University, Hyderabad
Computer Science and Engineering **GPA: 3.20**

Significant Courses: Algorithm and Programming with Data Structures, Enterprise Architecture, Database Management Systems, Application & Technology Architecture, Requirements & Engineering, and VB Programming.

PROFESSIONAL EXPERIENCE

UnitedHealth Group - Optum, Raleigh - NC   **Jan 22 – Present**
Role: Sr Software Engineer / Lead Software Engineer

Description: Optum is a leading health services and innovation company, part of UnitedHealth Group, dedicated to improving healthcare through technology-driven solutions. It provides a range of services including data analytics, care delivery, and pharmacy care services to optimize health systems and improve patient outcomes.

Environment: HTML5, CSS3, SASS, Angular 17+, React, React Native, Ngx Bootstrap, Figma, Java Spring Boot, GraphQL, MongoDB, Zustand, Node, JSON, Karma, Jasmine Unit Test, Cypress, Playwright, npm, Jenkins, SPLUNK, Databricks, GIT, Source Tree, Rally, Agile, AWS, Azure Cloud, Genesis, Visual Studio Code, Postman, GitHub Copilot.

Responsibilities:

➤ Contributed to multiple phases of the Software Development Life Cycle (SDLC), including requirement gathering, data modeling, analysis, architecture design, and development, all within an Agile/Scrum environment.

➤ Led the development of key flagship products, ODX (Optum Data Exchange) and PSX (Provider Search Experience), driving improvements in healthcare data exchange and enhancing provider accessibility, ultimately delivering more efficient and streamlined services for users.

➤ Integrated RESTful and GraphQL APIs into React components to streamline data fetching and dynamic state management. Ensured efficient communication between the client and server, optimizing component rendering and handling asynchronous data flows using libraries like Zustand for state management and React hooks for optimizing component rendering.

➤ Worked on designing and implementing Micro Frontend architectures to modularize and scale large applications, ensuring seamless integration between independently deployed components while maintaining consistency in design and functionality.

➤ Led the migration from manual to automated end-to-end testing using Playwright and Cypress frameworks, increasing test coverage by 60% and significantly reducing defect leakage into production.

➤ Led the migration of legacy Angular projects to Angular 17+ while integrating Optum's standardized UI toolkit, significantly enhancing performance and scalability. Directed cross-functional teams of up to 12 developers, ensuring smooth execution and collaboration throughout the process.

➤ Worked closely with UX/UI designers to transform Figma wireframes and prototypes into fully functional, high-quality, interactive user interfaces, ensuring alignment with design specifications and a seamless user experience.

➤ Proactively remediated security vulnerabilities identified by Dependabot and CodeQL in both Angular and Java applications, implementing necessary patches and updates to strengthen the overall security posture of the applications.

➤ Designed and implemented the ODX Audit System to effectively monitor and log user activities, ensuring enhanced transparency, accountability, and improved data integrity within the system.

➤ Mentored and guided a team of 12 developers, promoting their professional growth and technical expertise through regular code reviews, collaborative pair programming sessions, and engaging technical workshops to solve complex business requirements.

➤ Collaborated closely with Business Team and Technical Program Managers (TPMs) to plan and manage project timelines, strategically allocate resources, and ensure the on-time delivery of high-quality deliverables. Additionally, maintained balanced workloads across the team, fostering a positive and collaborative work environment that enhanced productivity and team morale.

Egen Solutions, Naperville - IL	Feb 18 – Dec 2021
Role: Software Developer	

Description: Egen Solutions is a leading enterprise specializing in web and mobile application development, committed to crafting superior user experiences with cutting-edge design. Additionally, Egen operates an IT Talent Acquisition division, connecting top-tier tech professionals with companies across the United States.

Environment: HTML5, CSS3, JavaScript, Angular 1.6 and 12+, Angular Material, Bootstrap, AJAX, JSON, SASS, LESS, Node, npm, Java Spring Boot, GraphQL, Agile, Jenkins, Visual Studio Code, IntelliJ, Postman, Source Tree, GIT, TFS.

Responsibilities:

➢ Worked for clients **Raymond James** and **UnitedHealth Group - Optum** to design, develop, and enhance their flagship products. Led the implementation of scalable, high-performance features while ensuring an intuitive and user-centric experience.

➢ Worked closely with the business analyst team to design comprehensive use cases, ensuring alignment with business goals and user needs, and authored detailed technical requirement documents to guide the development process effectively.

➢ Contributed to the development of a hybrid application by working on both AngularJS 1.6 and Angular 8 frameworks, leveraging TypeScript to implement robust, scalable, and maintainable solutions for enhanced functionality and user experience.

➢ Designed, developed, and tested user interfaces using HTML5, CSS3, Bootstrap, JavaScript, jQuery, and AngularJS 1.6, ensuring compliance with accessibility guidelines and web browser standards for a seamless and inclusive user experience.

➢ Developed and maintained Angular applications by writing comprehensive unit tests, creating reusable components, custom directives, and pipes, implementing template syntax, and configuring efficient routing to enhance application functionality and maintainability.

➢ Developed single-page applications (SPAs) using AngularJS 1.6 and Angular 8, incorporating reusable generic services to optimize functionality. Utilized Ngx Bootstrap, Angular Material, and CSS3 media queries to design responsive, scalable, and visually appealing user interfaces.

➢ Designed and implemented reusable components and services to efficiently consume REST APIs, leveraging Angular's modular architecture to ensure scalability, maintainability, and streamlined application development.

➢ Developed Angular services to interact with RESTful APIs, efficiently consuming and processing JSON data to ensure smooth integration and dynamic rendering of content within the user interface.

➢ Utilized jQuery to manipulate HTML5 and CSS3, enhancing interactivity and user experience. Leveraged AJAX, JSON, and XML to enable dynamic content loading and seamless data communication, resulting in responsive and interactive web pages.

➢ Performed comprehensive unit testing using Jasmine to ensure the quality, functionality, and reliability of the code. Employed TFS for efficient project management, tracking progress, and resolving bugs, ensuring timely delivery and high-quality software.

➢ Utilized continuous delivery tools such as Jenkins and Genesis to automate application deployment, ensuring efficient and consistent releases. Managed version control with Git to facilitate incremental development, track code changes, and maintain a comprehensive history of the project for smooth collaboration and rollback capabilities.

➢ Actively collaborated in an Agile environment, participating in daily stand-ups, sprint planning, and retrospectives to ensure smooth project execution. Utilized TFS for efficient task assignment, tracking progress, and managing bug resolution, ensuring timely delivery of features. Engaged in iterative improvements through regular feedback cycles, optimizing the development process and enhancing overall product quality.

Project: Service Request Management

Description: Kent State University is a large, primary residential, public research university in Kent, Ohio. It has serval IT divisions which services on software solutions to the Organization. The application Service Request Management is a part of Technology Department at University College which supports day-to- day jobs of managing a wide range of requests such as IT support requests, project requests, service requests, application development requests, media design requests, etc. from internal and external clients.

Environment: Angular 2, Type Script, HTML4/5, CSS3/2, C#, ASP/ADO.NET 4.0, ngx Bootstrap, JavaScript, Responsive Web Design, AJAX, JSON, MS SQL Server 2008, Visual Studio 2017 and GitLab.

Responsibilities:

➢ Gathered and analyzed requirements, converting them into User and Functional Requirement Specifications for designers and developers.
➢ Implemented Angular 2 services to connect the web application to back-end APIs to POST/GET the data used in the application.
➢ Implemented Angular Router to enable navigation from one view to the next as agent performs the tasks.
➢ Used Bootstrap framework, CSS3 Grid Layout, Media Queries, and Mobile-first concept to design the responsive web pages for providing better user experience and to optimize applications for maximum speed and scalability.
➢ Collaborated with UX team to design and develop responsive web template frameworks and libraries for the construction of multiple customized web applications for various business and client areas.
➢ Developed client-side validation JavaScript to ensure all user input is validated before submitting to back-end.
➢ Worked with Server Controls, User Controls, Navigation Controls, Custom Controls, Master Pages, Data binding and Exception handling in the .Net Applications to increase performance.
➢ Worked with Angular Directives, Expressions, Modules, Data Binding, Controllers, Model, and Scopes to develop dynamic web applications and to provide better performance.
➢ Worked on migrating dot net web forms applications into Angular MVC based architecture.
➢ Worked on some of the new features of Angular 4 like new if else syntax, ng-templates, form validators, Router.
➢ Increased efficiency by working directly with the Quality Assurance team to develop automation tools and test cases using Selenium and Python that relieve manual testing loads.
➢ Added HTML5 charts including bar chart, line chart and multiple series chart for comprehensive data visualization.
➢ Created Database Tables, Stored Procedures, Views, and User Defined functions using MS SQL Server tool.
➢ Developed SQL scripts to perform data extraction, custom reports, and statistics to manage large data sets and to build analytics report.
➢ Performed database migration from SQL dev server to Plesk production server using MS SQL Server tool.
➢ Used GitLab Version Control as a source code repository for the project management, Code review and team collaboration.

CERTIFICATIONS

CS50: Introduction to Computer Science, Harvard University (edX) – May 2016
Computer Science 101, Stanford University – Mar 2016
Front End Development: Free Code Camp – April 2016