

# Pavan Kumar Jonnadula

Full Stack Developer

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 <https://portfolio-pavan.onrender.com/>

## PROFESSIONAL SUMMARY

- Around 5 years of professional experience as Single Page Application Front-End web developer in developing and designing user interface of Internet/Intranet applications using HTML, CSS, XML, JavaScript, jQuery, JSON, Ajax, Redux, Angular and Spring Boot.
- Experience in working with RESTful Web Services and implementing RESTful API's. Experience in MVVM driven approach of building application and Redux-Promise is used to retrieve data from Backend using Spring Boot Framework.
- Strong understanding in using components, modules, directives, factories, services, dependency injection and digest cycle in Angular.
- Experience in using components, Forms, Events, Guards, Router, Ag-Grid, Google Maps and Loading concept while developing Single Page Applications with Typescript Angular Development and creating customizable components.
- Currently engaged in the active pursuit of expertise in the practical application of Generative AI within real-world projects. Successfully designed and executed a project aimed at leveraging Generative AI to automatically generate fundamental code structures from images of various websites.
- Built Confidential tool using http interceptor's configurations for security, RxJS, and NgRx platform. Developed components as an independent module for reusability across the application.
- Experience in CSS preprocessor LESS and SASS for dynamically styling Developed HTML templates and performed client-side Validation using JavaScript and utilize the Responsive Web Designs (RWD).
- Configured custom rules and quality profiles in SonarQube, tailoring the analysis to specific project requirements and coding guidelines.
- Integrated Artifactory with build tools (e.g., Maven, Gradle) and continuous integration/continuous deployment (CI/CD) pipelines, automating the artifact deployment process and enabling smooth deployments.
- *Familiar with open-source tools:* Package Mangers (NPM/Bower) and Atlassian tools (Confluence, JIRA and Stash).
- *Core Java Proficiency:* Strong command of core Java concepts, including data structures, collections framework, and multithreading. Proficient in writing optimized code that harnesses the full potential of core Java principles using Design Patterns enabling the development of scalable and maintainable code structures that promote code reusability and extensibility.
- *Cloud Deployment and Containerization:* Successfully deployed applications on AWS and GCP, leveraging Kubernetes and Docker infrastructure for seamless scalability and efficient deployment processes.
- *Angular Application Development:* Proficiently developed various Angular components, including Services, Animations, Reactive forms, Custom Validators, Directives, Pipes, ensuring dynamic and interactive user interfaces.
- *RESTful API Development and Database Integration:* Built robust RESTful APIs and seamlessly integrated them with diverse databases like MySQL and MongoDB, ensuring efficient data retrieval and manipulation.
- *Authentication and Authorization Implementation:* Implemented secure user authentication and authorization using industry-standard protocols such as JWT and OAuth2, ensuring stringent data protection and access control.
- *Quality Assurance and Troubleshooting:* Actively participated in code reviews, wrote comprehensive unit tests, Implemented SonarQube static code analysis tool to enforce code quality standards across projects, leading to the identification and elimination of code smells, bugs, and security vulnerabilities.

- **Leadership and Client Collaboration:** Proactive problem solver with a hands-on approach, adept at leading teams to successful outcomes while consistently delivering high-quality results. Skilled in understanding customer needs, providing tailored technical solutions, and collaborating with clients to ensure satisfaction and successful project execution.
- **Additional Skills:** Proficient in Search Engine Optimization (SEO) techniques, leveraging UX tools like Figma and Adobe Photoshop for enhanced user experiences, and adept at configuring Spring beans through Dependency Injection (DI) and Inversion of Control (IOC) principles.

## TECHNICAL SKILLS

- **Languages:** Java, JavaScript, TypeScript, HTML, CSS
- **Frameworks:** Angular, Spring Boot, jQuery, Selenium, React, Node.js, GraphQL, Express.
- **Databases:** MS SQL Server, MongoDB.
- **Other Tools & Technologies:** Git, Postman, Redux, AdobeXD, Figma, Visual Studio, IntelliJ, Jenkins, Docker, Microsoft Office, AWS, Wireframe, Kubernetes, Angular Material, Jasmine/Karma, Bootstrap, Nginx, NgRx, Gitlab, Jira, Confluence, Slack, Azure, Google Cloud Platform, JWT, OAuth2.
- **Methodologies:** Agile, Waterfall.

## CERTIFICATES

### Machine Learning Specialty – AWS

Jan 2024

- Achieved the ability to perform Machine Learning activities on AWS.

### Developer Associate – AWS

Jan 2021

- Obtained hands-on experience with the cloud features of **AWS**.

## EDUCATION

### University of Missouri, Kansas city (UMKC)

Kansas City, MO

Masters in Computer Science

3.6 GPA

### Amrita University

Kollam, India

Electrical and Electronics Engineering (B.Tech)

8.13 GPA

## WORK HISTORY

### INFOSYS (Helix)

Apr 2024 – Present

- Led a team of 8 developers in the design and development of Angular applications, ensuring timely delivery and highquality output.
- Developed and implemented multiple features to facilitate seamless interaction between providers and members within the healthcare domain.
- Created a suite of reusable components, reducing developers' workload by 50% for future enhancements, following client approvals.
- Supervised and mentored a team of interns, providing guidance on software orientation and ensuring their smooth integration into development processes.
- Integrated Google Maps to display demographic data, significantly improving data visualization and user engagement.
- Leveraged Google APIs to calculate time and distance, visualizing results as isochrones (ISO lines) on Google Maps for enhanced spatial analysis.
- Ensured adherence to intellectual property (IP) compliance throughout the project lifecycle.

- Oversaw project milestones, deliverables, sprint planning, and facilitated bi-weekly technical sessions to drive team productivity.
- Displayed large datasets using customizable data tables, allowing for flexible and user-friendly data presentation and interaction.
- Managed and optimized large datasets using SQL in DBeaver, ensuring efficient data handling.
- Implemented dynamic charts to display demographic insights, enhancing user interaction with complex data.
- Retrieved data via RESTful APIs developed using Spring Boot Microservices, ensuring efficient back-end communication.
- Developed and integrated a chatbot to enhance user interaction and engagement within the application.
- Ensured secure access to data and application screens by implementing Angular's Activated Route and Route Guards.

**Technologies:** Angular 15, Javascript, Typescript, Google Maps, Figma, HTML5, CSS, SASS, jQuery, SQL, JIRA, Azure, SpringBoot, SQL, DBeaver.

### Walmart (Forge IT)

Sept 2023 – Apr 2024

- This application integrates multiple backend services where data is stored in oracle database.
- Integrated and Developed REST API to expose functionalities through microservices built using Java Spring Boot.
- Built Jenkins Pipelines for the test-suites and support in Release process for the features released in various test and production environments.
- With Single Page Applications features a typescript Angular application has been developed and created customizable components.
- Under Angular v14 application got to involve in development Reactive Forms, Events, Guards, Router, Ag-Grid and Loading concept.
- Implemented OAuth as part of single sign-on feature for the angular application.
- Experienced with more secure navigation between components using authguards.
- Developed multiple reusable components in Angular.
- Built Confidential tool using Angular, RxJS, and NgRX platform. Developed components as an independent module for reusability across the application.
- Used REST APIs in the Java backend application to integrate the applications running in Cloud with device and web users.
- Engaged with a variety of technologies including Java Multithreading, collections, Core Java, and SQL.
- To increase security/scalability of the application, dockerized all the microservice (developed in Java) and migrated to Kubernetes of AWS Cloud.
- Ensured compliance with HIPAA and PII data handling requirements, implementing encryption and access controls.
- Implemented Node.js as the backend scripts. And connected with MongoDB as database.
- Extensive experience in deploying, managing and developing MongoDB clusters.
- Designed, Configured, and deployed Amazon Web Services (AWS) for multiple applications utilizing the Amazon cloud formation templates. Experience in CI/CD tools like Docker, Jenkins, and Kubernetes for building and managing containers.
- Involved in web designing using HTML5, XHTML, CSS3, JavaScript, used Table less Design in CSS for positioning.

**Technologies:** Angular 14, Springboot, Java, Core Java, Redux, JavaScript (ECMAScript5, ECMAScript6), Nodejs, Typescript, HTML, CSS, SASS, jQuery, MongoDB, Docker, Jenkins.

### CABS – TCS (Albertsons)

Apr 2020 – Feb 2022

- Worked as Full Stack Developer and developed an angular application.
- Experience working with Single Page Application using Angular with Angular Material.

- This application integrates multiple backend services where data is stored in oracle database.
- Technologies used are Angular, JavaScript, MS-SQL Server, Spring Boot.
- Handled roughly 70% of the UI development and 30% of the backend development.
- Created TypeScript reusable components and services to consume REST API's using Component based architecture provided by Angular.
- Developed backend APIs using the Spring Boot framework.
- Implemented Ag-Grid to enable efficient data management, filtering, sorting, and advanced data visualization in web applications, enhancing user experience and data presentation capabilities.
- Responsible for planning project milestones, deliverables, Sprint planning, Bi-Weekly tech sessions, etc.
- Worked with Angular 10/12 to build dynamic interactive webpages.
- Development included using tools such as Jira, VS Code, Gitlab, Jenkins etc.
- Experience with Snowflake cloud data warehouse and AWS S3 bucket for integrating data from multiple source systems which include loading nested JSON formatted data into snowflake table.
- Experience in working with SQL and NoSQL Database like MongoDB to manage extremely large data.
- Used Karma and Jasmine frameworks for writing almost 1800 testcases as part of Unit Testing.
- Integrated SonarQube with CI/CD pipelines to automatically trigger code analysis on every code commit, ensuring continuous feedback and early detection of potential issues.
- Actively participated in code reviews and code refactoring sessions, leveraging Sonar Lint to identify and address issues proactively, resulting in cleaner, more maintainable codebases.
- The application is equipped with i18n capabilities, enabling it to support multiple languages and improve usability for users who speak different languages.
- Maintained the daily history of issues related to bugs using Jira as well as the bug tracking system to track.
- Experience in Implementing CI/CD pipelines with integrated unit tests, code coverage, code quality, performance test cases, and knowledge in creating containers in Docker.
- Overall, my role as a Full Stack Developer required a range of skills and responsibilities, from designing and developing application components to working with various technologies and frameworks, tracking bugs and issues, and ensuring the application's quality through comprehensive testing.

**Technologies:** Angular 8, Redux, Javascript, Nodejs, Typescript, HTML, CSS, SASS, jQuery, SQL, SonarQube, Docker, Jenkins, SpringBoot, AWS, MongoDB, Underscore, Jasmine, Protractor, Karma.

## Social Connector – TCS (Coppel)

Dec 2019 – Mar 2020

- A custom internal tool designed for the creation of self-serving dashboards for various analytics purposes.
- As a Front-End Lead developer for a multi-site Angular project that relied heavily on custom library driven development as its core development philosophy.
- Developed several components in the application that implements lazy loading feature in Angular 8/10.
- This application was created to be a replacement for other networking websites such as Teams and Slack.
- This integration with the project boosts employee productivity by about 30%.
- Designed Efficient and scalable rest APIs Using NodeJS, Express, Mongoose, and MongoDB.
- Used JWT token to implement authentication using Angular HTTP intercept.
- Built Confidential tool using Angular 8, RXJS, and NGRX platform. Developed components as an independent module for reusability across the application.

**Technologies:** Angular 7/8, Javascript, Nodejs, Typescript, HTML, CSS, SASS, jQuery.

- Single handedly created this application from the ground up and oversaw its deployment by establishing the CI/CD pipeline integration with GitHub.
- Modernized the excel sheet features into an angular-based web application.
- This eliminates the need to send excel sheets to coworkers via mail.
- Involved in Agile/ SCRUM based approach to UI development.
- Worked on SOAP and RESTful Services using WEB API which return Json data.
- Implemented SOA architecture with Web Services using SOAP, JAX-WS, WSDL, UDDI and XML.
- Configured spring beans by Dependency Injection (DI) and Inversion of Control (IOC) principles.
- Involved in implementation of MVC pattern using Spring Controller and developed business objects using Spring IOC, Spring boot, Spring Batch and Spring Cloud.
- Worked on different technologies like Java Multithreading, collections, Core Java, SQL, Stored Procedures, XML Parsing, Generating XML Requests.
- Throughout the development process, I was responsible for planning project milestones, deliverables, sprint planning, bi-weekly tech sessions, and more.
- Employee efforts were reduced during the early stages of new employee integration.
- MongoDB is used to store data in the backend.
- Responsibilities included UI/UX design planning and development.

**Technologies:** Angular 2, Javascript, Typescript, HTML, CSS, jQuery, SQL, Jenkins, SonarQube, SpringBoot, XML

### ACHIEVEMENTS & AWARDS

- Established AdobeXD to develop prototypes which helped in eliminating the rework during the project deliveries.
- Implemented Angular training program for a team of 20+ onshore and offshore developers, resulting in improved productivity, meeting SLA deadlines, and eliminating unproductive self-study time.
- **Best Employee Award (TCS):** Received this award for being a star developer in multiple projects in a short turn-around time.
- **Best Team Player award (TCS):** Award given for being a dependable resource and taking up critical action items with tight deadlines and for pitching in to help multiple teams.
- **Best Innovative Award (TCS):** Award received for developing an internal communication application which was received as the best innovation among many other ideas.