

Pushpalatha Bandapu
Full Stack Web Developer

Houston, TX 77058 | Willing to Relocate

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Software developer with handful industry experience and passion for developing innovative programs that expedite the efficiency and effectiveness of organizational success. Well-versed in technology and writing code to create systems that are reliable.

PROFESSIONAL SUMMARY:

- Possesses around 3.6 years of web application development experience, specializing in cutting-edge technologies such as **ReactJS (up to version 17.x)**, showcasing deep expertise in crafting dynamic interfaces and SPAs.
- Proficient in **TypeScript (version 4.x)**, employing it across React projects for enhanced code reliability and developer productivity through static typing.
- Expert in integrating **RESTful** and **GraphQL APIs** in React applications, using **Apollo Client (version 3.x)** for efficient data management and state control with **GraphQL**.
- Demonstrated ability in responsive web design with **Tailwind CSS (version 2.x)**, employing utility-first CSS framework techniques for adaptable and responsive designs across various devices.
- Experienced in modernizing and migrating legacy applications to the latest React standards, transitioning from class components to functional components using **React Hooks (introduced in React 16.8)**.
- Utilizes **Node.js (version 14.x)** for full-stack development, incorporating **Express.js (version 4.x)** for backend logic and **NextJS (version 7.x)** for creating scalable server-side applications.
- Specializes in web application development with a focus on foundational technologies such as **HTML5**, **CSS3**, **Bootstrap5**, and **SASS**, demonstrating a deep expertise in creating responsive and visually appealing user interfaces.
- Additionally, exhibits advanced expertise in **JavaScript**, utilizing the latest **ECMAScript** features to craft interactive and high-performance web applications
- Utilizes **MySQL** for database management, leveraging structured query language to design, develop, and optimize relational databases for efficient data storage, retrieval, and manipulation in application development.
- Utilizes **MongoDB** for database management, employing its flexible document schema to design, develop, and maintain scalable and efficient database solutions tailored to application needs.
- Skilled in **Docker (version 20.x)** for containerization and **Kubernetes (version 1.20.x)** for orchestration, enhancing development workflows, and deployment strategies.
- Proficient with **Webpack (version 5.x)** and **Babel (version 7.x)** for module bundling and transpilation, alongside **Jest (version 26.x)** for unit testing, ensuring robust development practices.
- Implements **CI/CD pipelines** using **GitHub Actions** and **GitLab CI** for automated builds, testing, and deployments, streamlining the development lifecycle.

- Adopts secure coding practices with **OAuth2** and **JWT** for authentication and authorization, ensuring secure data access and transactions in web applications.
- Actively applies **Agile** methodologies and **Scrum** practices, participating in all phases of the development cycle, from sprint planning to retrospectives, in a collaborative team environment.
- This comprehensive experience with specific technology versions illustrates a deep commitment to staying at the forefront of web development trends and practices, emphasizing a focus on **ReactJS** and **full-stack JavaScript** development.
- Excellent skills in relationship management with clients and effective in guiding team during the project development life cycle to yield the output within the stipulated time, cost, and quality.

TECHNICAL SKILLS

Languages:	C, JavaScript, HTML, Cascading Style Sheets (CSS), PHP
Databases:	SQL Server, MySQL, MongoDB, Oracle DB
Frameworks:	BOOTSTRAP ,React JS ,Next JS
Tools:	Visual Studio Code, MATLAB, Anaconda ,MS office
Cloud platform:	Amazon Web Services (AWS) Microsoft Azure
Operating systems:	Windows, MacOS, Linux
Soft skills:	Teamwork, exceptional communication, and client dealing.
Technologies:	GitHub

PROFESSIONAL EXPERIENCE:

Graduate Teaching Assistant, University of Houston - Clear Lake
Public University, Part of University of Houston Systems, Texas, USA

Aug 2023 – Jan 2024

Job Description: Actively assisted a professor with lesson planning, instructed small student groups, and supervised classroom activities. Engaged in coding events and attended essential meetings. Additionally, responsible for preparing laboratory materials to support educational objectives.

Responsibilities:

- Served as a Teaching Assistant for "**Principles in Digital Communications**" and "**Machine Learning and Applications**" at the University of Houston-Clear Lake (Fall 2023 - Spring 2024), facilitating the development and delivery of course content in a fast-paced academic setting.
- Enhanced classroom learning by assisting the professor with lesson plans, instructing small groups, and supervising students, focusing on the application of **Python 3.9** for scripting and automation in **web development projects**.
- Contributed to the organization and participation in coding events, applying principles of **Machine Learning using TensorFlow 2.8** and Digital Communications, integrating these technologies into user-centric web applications.

- Prepared and managed laboratory materials, supporting hands-on learning experiences with **HTML5, CSS3, and JavaScript ES6**, essential for dynamic and responsive web design.
- Tracked and supported student progress in coursework, projects, and assignments

Environment: HTML, CSS, SASS, Bootstrap, JavaScript, AJAX, JSON, GitLab

Client: Infoville Solutions, Bengaluru, India
Software Engineer

Aug 2018 – Jan 2022.

Job Description: Working as a Software Engineer with expertise in designing and implementing cutting-edge dashboards and generating real-time reports to streamline data visualization and decision-making processes.

Responsibilities:


- Involved in developing the front-end applications using web technologies like **HTML/HTML 5, and CSS/CSS3, JavaScript, ECMA script, react JS, redux.**
- Worked on **React JS** application using **Redux** for building and maintaining enterprise application for Health care system.
- Used **Axios, react router, React hooks, Redux** for building client-side application.
- Used **Java/J2EE** and **Spring** framework in the back end with **CI/CD** tools for continuous integration and continuous delivery.
- Worked on Spring boot for creating API.
- Involved in creating application-level code to interact with **APIs, RESTful** web services using **AJAX, JSON**
- Worked with **webpack** configuration for bundling the node modules and transforming the front-end assets like **HTML, CSS** and if the corresponding plugins are included.
- Knowledge of REACT tools including **React.js, Webpack, Enzyme, Redux, and Flux**
- Developed Object-Relational (O/R) mapping using **Hibernate 6.4.3.**
- Developed Data Access Object (DAO) persistence layer using **Hibernate 6.4.3.**
- Experience in creating micro services in the backend using spring boot.
- Worked on Application Management Life cycle.
- Good experience in Project Management
- Created private cloud using **Kubernetes** that supports DEV, TEST, and PROD environments.
- Implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure.
- Worked with **adobe target** technical solutions to drive multi-touch/multi-channel.
- Used **jasmine, jest** for writing test cases in the angular and react framework and **karma** as the test runner.
- Worked with **Docker** files and **Jenkins** to deploy the applications in the backend, **grunt** and **bower** using **node JS and yarn.**
- Worked on **python scripting** for creating APIs using Python Django
- Worked on **python** scripts for checking the service calls.
- Used **Python** commands for checking the manual services modification.
- Worked on **AZURE** cloud services for checking the services and the APIs.
- Expertise in Microsoft **Azure** Cloud Services (PaaS & IaaS), Application Insights, Document DB, Internet of Things (IoT), Azure Monitoring, Key Vault, Visual Studio Online (VSO) and SQL Azure.

- Manage and add to the external developer portal containing **swagger**-based testing interfaces.
- Worked on **API** design using **API** description tools such as **Swagger**.
- Used **yarn** for deploying application.
- Worked with text editors like **Visual studio code, Eclipse etc.**, to write the code.
- Worked with **GitLab** for version control and **JIRA** for defect tracking.
- Worked on **Agile** methodology for multiple sprints to push the code in time.

Environment: HTML, CSS, SASS, Bootstrap, JavaScript, AJAX, JSON, REST, React JS, redux, adobe target, webpack, mongo DB, java, Spring, Hibernate, Rest API, node JS, express JS, PostgreSQL, GitLab, JIRA

PROJECTS

"Climate Pulse: Interactive Weather Forecast Dashboard"

Project Description: Developed a dynamic weather application providing real-time weather updates. The app automatically fetches weather data based on the user's geolocation or through a manual search, presenting temperature, humidity, and wind speed metrics alongside visually engaging weather-condition-specific backgrounds. ****[Live Demo]**** 

Responsibilities:

- Engineered the front-end **using React 17** to create an interactive and user-friendly interface.
- Integrated **axios** for seamless API interactions with **OpenWeatherMap** API to retrieve real-time weather data, handling both geolocation-based and manual location entry data fetching.
- Implemented robust error handling to ensure application stability and provided clear user feedback.
- Managed application state and side effects using **React hooks** such as **useState** and **useEffect** for responsive UI updates.
- Utilized **JavaScript (ES6+)**, **HTML5**, and **CSS3** for crafting a responsive layout and intuitive user experience.
- Implemented automatic detection of user's current location using the **geolocation API** for localized weather data.
- Enabled dynamic background image updates corresponding to current weather conditions with a custom function, enhancing user engagement.
- Deployed the weather application on **Netlify** for robust, reliable hosting and automatic deployment from the **Git** repository.
- Maintained high standards of code quality and manageability using version control with **Git**.

Environment: HTML5, CSS3, JavaScript ES6, React 17, axios, OpenWeatherMap API, Netlify, Git, geolocation API, custom dynamic backgrounds.

EDUCATION

Master of Science in Computer Engineering	
University of Houston Clear Lake, Houston, Texas	GPA: 3.7/4.0