Akanksha Reddy Patlolla

Software Engineer | Frontend Developer

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SUMMARY

Full Stack Web developer with IT experience in development, testing, and implementation of enterprise grade web applications using Frontend Frameworks and Libraries like Angular, React Js and backend technologies including NodeJs, ExpressJs and Mongo. Specialized in building scalable, high-traffic web apps with polished UI and responsive design. Team player, meticulous about delivering high-quality software solutions.

EXPERIENCE

Project Delivery Senior Analyst

Deloitte

📅 03/2025   📍 Tampa, United States

- Developed responsive, accessible UIs using **React** and **Angular**, improving performance and user engagement.
- Built reusable components and design systems to streamline development across projects.
- Managed application state using **Redux, NgR**x, and **Context API** for scalable frontend architecture.
- Integrated **REST** and **GraphQL** APIs for dynamic data rendering and real-time updates.
- Improved load times by 40% through code-splitting, lazy loading, and performance tuning.
- Wrote unit and E2E tests using **Jest** reducing production bugs.
- Collaborated in Agile teams, contributing to sprint planning, code reviews, and deployments.
- Automated frontend builds and tests with GitHub Actions, Webpack, and Vite.

Software Engineer

Photon Inc. (Fidelity Investments)

📅 12/2024 - 03/2025   📍 Dallas, United States

- Leveraged various web technologies including **HTML5, CSS3, JavaScript(ES6), TypeScript, Angular, RxJS, Redux, NgRx, Nest.js, Node.js, Express.js, GraphQL,** & **Cypress** to develop responsive web applications
- Developed responsive and dynamic web application features adhering to security and coding best practises
- Implemented **BDD** testing methodology using **Cypress** and **Cucumber** which enhanced the testing process and facilitated better collaboration
- Upgraded the **Node.js** across multiple projects, enhancing performance, security and developer productivity while minimizing downtime and ensuring application stability

SKILLS

JavaScript(ES6)	TypeScript

Python	SQL	R	C

nodeJS	expressJs	Bootstrap

Material UI	HTML5	CSS3

SASS	NPM	YARN

Angular	react.js	Next.js

redux	jest	jQuery	cypress

RTL(React Testing Library)

MongoDB	PostgreSQL	MySQL

Webpack	Babel	AWS	Jira

Figma	Styled Components

Git	GitHub	BitBucket

ACADEMIC PROJECTS

Store Sales Forecasting (Python, R, Machine Learning)

Identified, transformed, and applied Fourier transformation to decompose time function to frequency domain.

Built decision tree, regression, Random Forest, K-Nearest neighbors to manage the future sales and inventory.

Airline Reservation Database System

Built entity relationship diagram, populated data into the database.

Ran SQL queries to analyze the passengers' rate monthly.

Cyber Malware Classification Project

Transformed JSON format to matrix, applied SMOTE techniques in Python to classify 5 types of malware attack.

Built various machine learning techniques such as logistic, Decision tree and Random Forest models with 93% accuracy to identify the malware attack so that to prevent future attacks.

EXPERIENCE

Software Developer
Purple Consultancy Services (State of Texas (TDHCA))
📅 10/2023 - 11/2024   📍 Tampa, FL

- Designed and developed a web application using **HTML5**, **CSS3**, **Bootstrap**, **JavaScript(ES6)**, **Typescript**, **ReactJS**, **Angular,** & **Redux,** that met accessibility and web browser standards for websites
- Utilized **NodeJS** and **ExpressJs** to design various **RESTful APIs** endpoints and Micro Services, ensuring smooth **CRUD** operations on a **NoSQL (Mongo)** database
- Implemented interactive and reusable **JSX** UI components in **React** and leveraged **Redux** for state management
- Successfully migrated {100%} of the old website content into the new website within **Drupal CMS**, ensuring data integrity and SEO
- Collaborated closely with the TDHCA website administrator to add, create, and implement client content changes, maintaining design consistency
- Prioritized user-centered design, accessibility, and usability standards throughout the development process
- Implemented Continuous Integration and Continuous Deployment (**CICD**) practices automating **GitHub Actions** testing and deployment

Software Developer
Purple Consultancy Services (Dicks Sporting Goods)
📅 09/2022 - 08/2023   📍 Tampa, Fl

- Leveraged various web technologies including **HTML5**, **CSS3**, **Bootstrap**, **Material UI**, **JavaScript(ES6)**, **TypeScript**, **React**, **Angular**, **Next.js, Redux**, **NodeJs**, **ExpressJs**, and **AWS** to develop responsive web applications
- Integrated {8} **REST APIs** using **Axios** , fetching and managing data efficiently.
- Experience in developing **tables**, **triggers**, **indexes**, **functions**, and **views** in a **SQL (PostgreSQL)** database.
- Developed various reusable react components that resulted in a high-quality, scalable application with a polished UI/UX
- Used **Cypress** to develop test scripts for **E2E** testing to ensure the code is error free & functioned as expected
- Implemented continuous integration and deployment pipelines (**CICD**) using **AWS CodePipeline**, **CodeBuild**, and **CodeDeploy**, cloud computing platform
- Religiously followed **Agile (Scrum) Development** philosophy to deliver regular updates to business team and project managers
- Responsible for **WCAG 2.1 AA** and **Section 508** compliance testing and implementation

Graduate Assistant
University of South Florida
📅 01/2022 - 08/2022   📍 Tampa, FL

- Worked in an Agile environment team developing the UI, layouts and front-end programming for web application that matches the requirements. Responsibilities include writing code in **HTML5**, **CSS3**, **JavaScript**, **ReactJS**, **Redux**, **ES6**, **jQuery** and making use of **Bootstrap** framework
- Experience in using **ReactJS** code for making API calls (**GET, POST, PUT, DELETE**) to interact with data through Restful API's
- Worked closely with other senior developers, product managers, system architects, and the **QA** team to deliver optimal designs and software to meet and exceed expectations following **MVC** architecture, under the Rational Unified Process (**RUP**)

EDUCATION

Master of Science (M.S.)
Indiana Wesleyan University
📅 08/2025 - Present

Master of Science (M.S.)
University of South Florida
📅 08/2022

Bachelor of Technology (B.Tech.)
Mahatma Gandhi Institue of Technology (affiliated to Jawaharlal Nehru Technological University)
📅 05/2019