**JANANI PARGUNAN**

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**TECHNICAL SKILLS**

Web Technologies HTML/HTML5, CSS/CSS3, SASS, LESS, JavaScript, AJAX, jQuery, JSON, Bootstrap

Frameworks & Libraries React.js, Next.js, Angular5+, Node.js, Nest.js, Bootstrap4

Tools & IDEs IntelliJ, Visual Studio Code, Postman, PyCharm, SQL Server Management Studio

Programming Languages C#, ASP.NET, Python

Databases SQL Server, MongoDB

Other Tools & Technologies Gulp, Grunt, JIRA

**WORK EXPERIENCE**

**Software Engineer (Front-end Developer), Walmart** May 2021 - Present

* Integrated a chatbot application into an existing web-application using React.js and implemented drag and drop functionality to enable dragging the chatbot
* Implemented role-based authorization logic to provide chatbot responses in Nodes.js
* Developed a feature component that wraps around components and renders based on deployment environment
* Developed reusable components and published in internal npm registry to be used within the organization
* Developed reusable side navigation bar component that renders menu based on dynamic data and onclick event handler provided as props by the user
* Worked on bug fixes, integrating shareable components and application developed using next.js and typescript
* Implemented dynamic route-based component rendering in next.js
* Worked with third-party modules like powerbi-client-react and embedded Powerbi reports and dashboards in next.js and react.js applications
* Used react-redux and redux-toolkit for state management, created API slices to configure actions, reducers and store
* Implemented HTTP methods like GET, POST, PUT, DELETE in Node.js and Java for creating API services.
* Configured jest and wrote unit testcases using react-testing-library with 100% code coverage
* Developed Export feature to download Powerbi reports with all or selected pages and provided options to download in PPT/PDF format
* Configured Sonar and eslint to enforce industry best coding standards
* Implemented end-to-end full-stack feature for tracking user activity on the application and reported the numbers to business for further analysis
* Implemented authorization check in Nest.js for embedded reports when users are accessing reports using direct links
* Configured YAML file to send deployment notifications on Microsoft Teams and Slack channel

**UI Developer, SS Technologies** November 2020 – May 2021

* Worked on an Employee Management System web-application developed using React and Nodes.js for managing employee and department records
* Implemented CRUD operations for saving, updating and deleting employee or department record and viewing list of all employees or departments
* Used React 16.8’s new feature Hooks to rewrite/re-factor front-end application and truncated down 30% codes
* Applied optimization techniques to reduce page size and load times to enhance user experience using sprites.
* Extensively used Git for version controlling and regularly pushed the code to GitHub.
* Implemented features like Drag and Drop for uploading files, Autocomplete to make webpages more interactive
* Added Excel-Builder to download the Tabular data in Excel format using react
* Used React-Router to enable page navigation and made the application a Single Page Application.
* Implemented redux concept extensively using react-redux package for managing application’s state
* Implemented form validation, CRUD operations, gridlist views, search, sort, pagination, calendar events, authentication, unit tests using React JS
* Configured Web pack to execute linters, pre/post-processors and tests
* Used Node Package Manager (NPM) to manage modules & used it to install useful tools as Grunt and Express.
* Developed the backend APIs on Node JS and fetched data from mongo DB using mongoose of Node.js
* Used Middleware, Redux-Promise in application to retrieve data from back-End and to also perform RESTFUL services

**Software Developer, AINS Inc** October 2019 – August 2020

* Worked on a large enterprise ASP.NET web-application, troubleshooting and providing solutions to application issues
* Worked on third-party ASP.NET controls like Telerik RadControls and front-end frameworks like Angular
* Designed CSS3 webpages ensuring cross-browser compatibility
* Used jQuery, ASP.NET Web-forms, AJAX toolkit controls and CSS to enhance the performance and richness of the user interface
* Created Navigation menu and data-tables using Bootstrap and made the web-site fully-responsive
* Added Routing using Angular-routing feature to navigate between the tabs on webpages
* Added search functionality and modal pop-up windows with drop-downs, Date-pickers for adding employee or department record to the database using Angular10
* Provided upload picture functionality and stored the images in the app and added custom-filtering and sorting features
* Created databases and objects needed in SQL Server database, developed API end-points using ASP.Net Web API and built the user interface of the app using Angular 10 framework

**Graduate Research Assistant, George Mason University** January 2019 - May 2019

* Worked on a research project to estimate gender from fingerprints by extracting statistical features from gray-scale images using OpenCV Python

**Full Stack Web Developer, MuSigma** October 2015 – July 2017

* Built a data-visualization tool to analyze the region-wise performance of a search engine, by the world’s largest MNC
* Created dynamic regional heat-maps of three EMEA countries that presents a county-level data distribution, provided tooltip, legend, zoom-in and zoom-out features using d3.js and JSON
* Built data visualizations using line charts, pie charts, bar charts to display revenue growth and show the trends in KPIs values
* Designed and developed the User Interface using ASP.NET Web-forms, JavaScript, jQuery, ajax and d3.js for graphically representing the performance data of a search engine
* Created Views by applying complex queries on multiple tables using SQL Server, implemented Joins in Stored Procedures to get the desired data by joining multiple tables
* Developed web forms for the end users using C#, ASP.NET and authenticated logins and validated permissions
* Written SCOPE scripts to query data from a Big Data platform COSMOS and stored the data in SQL Server database

**ACADEMIC/ PERSONAL PROJECTS**

**Artificial Intelligence | C++**

* Implemented **A\*search algorithm** to solve sliding tile puzzles of different sizes using three heuristics
* Developed a game playing agent that plays Tic-Tac-Toe using **minimax with Alpha Beta Pruning algorithm**
* Implemented **Arc Consistency algorithm** to solve Sudoku puzzles of easy, medium and hard difficulty levels

**Computer Vision | Python**

* Implemented a shape-based detection technique for detecting traffic signs in images by performing Canny edge detection, Hough Transform and **convex Hull algorithm** on LISA image dataset achieving 80% accuracy

**Network Workbench Protocols | Java**

* Implemented algorithms for Bit-stuffing, Cyclic-Redundancy check, Go Back N, Binary Exponential Back-off, Dijkstra’s routing, Bellman-ford routing and TCP slow start algorithm as part of a Network Simulator

**GitHub Finder App | JavaScript, jQuery, AJAX, Github API, Bootstrap**

* Built a Github profile search application using jQuery, JavaScript, AJAX and Github API
* Fetched user profile information and repository information from the **public GitHub API**
* Displayed them using **Bootswatch** – a custom theme service for Bootstrap

**EDUCATION**

Master of Science, Computer Science Aug 2017 - May 2019

George Mason University, Fairfax, Virginia, USA

Bachelor of Engineering, Computer Science Aug 2011 - April 2015

Anna University, Chennai, India

**CERTIFICATIONS**

Front-end UI Frameworks-Bootstrap 4 (Coursera), Learn Angular 5 from Scratch (Udemy), Database Design (Udemy), JavaScript Essentials (Udemy)