Divyeshree Potdar

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Summary

- Experienced Software Developer with over 5 years of expertise in both frontend and backend development, specializing in React and contemporary web technologies.
- Extensive experience with HTML5, CSS3, JavaScript, and TypeScript, leveraging frameworks like React (functional and class components, custom hooks, React Router, Redux) to build dynamic and responsive user interfaces.
- Developed reusable components, managed complex application states with Redux and Redux Thunk, and implemented client-side routing. Skilled in optimizing performance and ensuring cross-browser compatibility.
- Hands-on experience with Node.js and Express.js for building and integrating RESTful APIs, handling JWT authentication, and managing data operations. Utilized Flask for machine learning model integration.
- Proficient in MySQL, AWS S3, AWS RDS, focusing on efficient data storage, retrieval, and integrity.
- Expertise in optimizing application performance using Webpack and Babel, ensuring efficient bundling and transpiling of code.
- Experienced with Jenkins, Docker, Kubernetes, and GitLab for continuous integration and delivery, streamlining deployment processes and enhancing operational efficiency.
- Applied machine learning models using PyTorch, TensorFlow, and Scikit-learn, with expertise in data analysis using NumPy, Pandas, and visualization with Matplotlib and OpenCV.
- Skilled in unit and integration testing with Jest, React Testing Library, Chai and Postman, ensuring high code quality and reliability.
- Proven ability to optimize application performance, addressing challenges related to large datasets and real-time data processing.
- Experience with cloud platforms such as Azure (App Insights, App Service, SQL Servers, Cosmos DB, Blob Storage) and AWS for deploying applications, managing databases, and integrating services.
- Experienced in Agile, Scrum, contributing to effective project management and collaboration.
- Proficient in Git and GitHub for version control, managing branches, and ensuring smooth collaboration within development teams.
- Strong communication, teamwork, and problem-solving skills, with a proven ability to adapt to new technologies and work efficiently in fast-paced environments.

Skills

Frontend Technologies: HTML5, CSS3, JavaScript, TypeScript, React, React Router, Redux, JQuery, Sass
Backend Technologies: Node.js, Express.js, Flask
Database Management: MySQL, MongoDB, SQLite, Firebase
API Development & Integration: RESTful APIs, JWT Authentication, Socket.IO, AJAX, Axios
Performance & Build Tools: Webpack, Babel
Testing: Jest, React Testing Library, Postman, Chai, Mocha
DevOps Tools: Jenkins, Docker, Kubernetes, Jira, Slack, GitLab, with various tools of CI/CD process
Machine Learning & Data Science: PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, OpenCV
Other Software/Resources: Jira, Github, VS Code, Git, Intellij IDEA, Figma, Bootstrap
Methodologies: Agile, Scrum, Waterfall

Professional Experience

System Soft Technologies
Project Name: Elysium Analytics Web Platform
Duration: Jan 2023 – Present
Location: Herndon, VA

Project Description:
Elysium Analytics is a cognitive SIEM platform designed to enhance security threat detection through AI and machine learning. The platform offers real-time incident resolution and risk-based threat prioritization, built on an open-source architecture that supports flexible deployment options. The project focused on developing a highly scalable web application with advanced security features, targeting performance, user experience, and reliability.

Responsibilities:

- Developed responsive and dynamic user interfaces using **React, Redux, HTML5,** and **CSS3**, ensuring a seamless and cross-browser compatible experience.
- Managed complex state with **Redux** and handled asynchronous operations using **Redux Thunk** to efficiently manage real-time security logs and alerts.
- Built and integrated secure **RESTful APIs** using **Node.js** and **Express.js** for user authentication and log management.
- Designed client-side routing with **React Router** to enable smooth navigation and dynamic content rendering within the application.
- Conducted unit and integration testing using **Jest** and **React Testing Library** to ensure code quality and reliability.
- Optimized application performance by leveraging **Webpack** and **Babel**, reducing load times and enhancing overall efficiency.
- Deployed the platform on **AWS** using EC2 instances for scalable compute resources and **AWS RDS** for managing the **MySQL** database with automated backups and high availability.
- Containerized the application using **Docker**, creating isolated environments for the Node.js backend and React frontend, enabling easier scalability and management.
- Orchestrated the platform's deployment using **Kubernetes**, managing multiple containers to ensure high availability, load balancing, and automatic scaling.
- Created Helm charts to automate and streamline deployments across development, test, and production environments within Kubernetes.
- Built a **CI/CD** pipeline using Jenkins integrated with Docker and Kubernetes, automating testing, building, and deployment processes for continuous integration and delivery.
- Applied **PyTorch**, **TensorFlow**, and **Scikit-learn** to develop machine learning models for analyzing data patterns and enhancing platform functionality.
- Integrated machine learning models via **Flask**, using **NumPy** and **Pandas** for data preprocessing and Matplotlib for data visualization of threat trends.
- Collaborated in an **Agile environment**, participating in daily stand-ups, sprint planning, and retrospectives, ensuring timely delivery of features and improvements.
- Managed version control using Git, handling feature branches and pull requests for efficient collaboration and maintaining a clean codebase.

Excep Technology Pvt. Ltd., India

Project Name: EcoScape Environmental Monitoring Platform
Duration: Jan 2018 - August 2022
Location: India

Project Description:

EcoScape is an environmental monitoring platform that integrates IoT devices and sensors to collect real-time environmental data. It provides advanced data visualization, analytics, and mapping to help users make informed decisions for environmental management. The platform is designed to support large-scale deployments, offering robust performance, scalability, and real-time data processing.

Responsibilities:

- Developed a comprehensive data visualization interface using **HTML5, CSS3, JavaScript, React, and Redux**, significantly enhancing user experience. Addressed performance issues by optimizing rendering and state management.
- Implemented **React Router** for seamless client-side navigation, ensuring a smooth and dynamic user experience across different sections of the platform.
- Built RESTful API endpoints with **Node.js** and **Express**, focusing on user authentication, data collection, and reporting. Integrated **JWT authentication** and **Socket.IO** for real-time communication, ensuring secure and efficient data transactions.
- Designed and implemented modules for collecting real-time environmental data from sensors, IoT devices, and external APIs. Utilized **MongoDB** for data storage and **TypeScript** for type safety.
- Conducted unit and integration tests using **JEST** and **Postman** to ensure system reliability and cohesion between frontend and backend components.
- Assisted in deploying the platform on **AWS**, configured database instances using **MongoDB** and **MySQL**, and set up **CI/CD pipelines** using **Docker** and **Kubernetes** for seamless integration and delivery.
- Integrated **Mapbox API** for environmental mapping, displaying sensor locations and trends with spatial analysis tools.
- Managed collaboration and version control using Git/GitHub, ensuring efficient code management.
- Worked in an Agile environment, contributing to daily stand-ups, sprint planning, and cross-team collaboration.
- Encountered performance challenges when handling large datasets and real-time data processing. Addressed these by optimizing the application architecture and implementing efficient state management techniques.