

Divyeshree Potdar

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Summary

- Experienced Software Developer with over 5 years of expertise in both front-end and backend development, specializing in React and React Native, as well as contemporary web technologies.
- Extensive experience with HTML5, CSS3, JavaScript, and TypeScript, leveraging frameworks like React (functional and class components, custom hooks, React Router, Redux) and React Native to build dynamic and responsive user interfaces across web and mobile platforms.
- 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 JS, React Native, React Router, Redux, JQuery

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 highly scalable applications for both web and mobile platforms, with advanced security features, targeting performance, user experience, and reliability.

Responsibilities:

- Developed responsive and dynamic user interfaces using **React JS**, **React Native**, **Redux**, **HTML**, and **CSS**, ensuring a seamless and cross-browser compatible experience across web and mobile.
- Managed complex state with **Redux** and handled asynchronous operations using **Redux Thunk** to efficiently manage real-time security logs and alerts for both platforms.
- Built and integrated secure **RESTful APIs** using **Node.js** and **Express.js** for user authentication and log management, supporting data transactions for web and mobile.
- Designed client-side routing with **React Router** for web and **React Navigation** for mobile, enabling smooth navigation and dynamic content rendering within the applications.
- Conducted unit and integration testing using **Jest** and **React Testing Library** for web, and **Detox** for mobile, ensuring code quality and reliability across platforms.
- Optimized application performance by leveraging **Webpack** and **Babel** for web, and **Metro bundler** for mobile, 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 both the React and React Native frontends, enabling easier scalability and management.
- Orchestrated the platform's deployment using **Kubernetes**, managing multiple containers to ensure high availability, load balancing, and automatic scaling across web and mobile.
- 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 across platforms.
- 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.