PRAKRITI BHATTARAI

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PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER — HONEYCOMB.AI — VANCOUVER, CANADA — APRIL 20 23 – SEPTEMBER 2023

- Implemented an API in Node.js to operationalize Honeycomb's predictive technology, utilized by both company apps and external clients. including Fortune 500s
- Developed and documented API endpoints for restaurant data retrieval, verification of allergens, and restaurant search
- Implemented features such as menu data extraction from an external API and elastic search-based search functionality
- Created a module rate limiting middleware to restrict the number of API calls per user resulting in a 15% decrease in the number of vulnerabilities, fortifying the application against potential risks.
- Implemented a logger middleware to keep track of the details of the number of user requests and their details for security improvements
- Created an authentication middleware to allow the user with a verified token to get access to the API
- Built a maximum payload size module to check payload in a request exceeds, reducing page load times by 25%
- Automated a series of test cases using Mocha.js, Chai.js, and Chai-HTTP libraries to evaluate various endpoints of a server which led to a remarkable 80% reduction in overall testing time
- Implemented an algorithm to retrieve restaurant data from a rate-limited API using an SDK and populated a database with this information. The algorithm handles rate limiting to ensure compliance with API usage policies and efficiently processes paginated results to capture all available restaurant data. Error handling is incorporated to manage exceptions and ensure robustness in data retrieval and database population.

WEB DEVELOPER — WEB HOST NEPAL — KATHMANDU, NEPAL — NOVEMBER 2021 - NOVEMBER 2022

- Designed and developed an e-commerce platform in Laravel serving over 1000 vendors and customers to buy and sell products
- Built an admin dashboard to implement role-based access control and product management system for vendors to manage their inventories
- Built a custom chat module facilitating communication between administrators and vendors.
- Designed and implemented a robust product review system, calculating and aggregating reviews to provide valuable insights to users and improve overall product quality and customer satisfaction.
- Integrated third-party authentication providers, such as Google and Facebook that allow users to sign up and log in to purchase products
- Developed and documented API endpoints in Laravel and conducted testing using Postman and PHPUnit to ensure data are transmitted effectively and securely to support front-end features
- Integrated a third-party API for a payment gateway that resulted in a significant increase in online sales and elevated customer satisfaction levels by providing a secure and seamless transaction experience.
- Utilized Git and GitLab to manage source code and track changes throughout the development process and integrate code with other developers and Trello to plan, organize, and track project progress
- Set up continuous integration and deployment (CI/CD) pipeline using GitLab CI/CD or GitHub Actions for automated testing, build, and deployment processes.
- Implemented the Repository design pattern within the e-commerce platform to abstract data access logic, ensuring separation of concerns, improved code maintainability, and enhanced scalability
- Collaborated with a diverse team (>10) of project managers, senior developers, quality assurance, and interns to deliver projects on time and meet clients requirements

WEB DEVELOPER — E-PRIMA TECHNOLOGY— KATHMANDU, NEPAL — OCTOBER 20 18 - NOVEMBER 20 21

- Provided support for the maintenance of an Employee Management system built using PHP, and MySql, resolving technical issues, server errors, database connection issues, and broken links thus enhancing system performance
- Designed and Developed over 15 websites and Content Management Systems using the existing Codeigniter Content Management System for educational institutions, and public and private organizations, providing comprehensive information about their services, courses, and organization
- Developed new modules as per the client's requirement and fixed the bugs and updated the code base for the Content Management System
- Created a robust dashboard for administration to manage content for the website store data of students and track their performance
- Developed the entire content management system (CMS) for the company by transitioning from CodeIgniter to Laravel, emphasizing language migration and embracing Laravel's Model-View-Controller (MVC) architecture for enhanced efficiency and scalability
- Led the development of the "Building Climate Resilience of Watersheds in Mountain Eco-Regions" project, which effectively tracked water resource availability and maintained crucial data collection records in rural regions of Nepal using Laravel
- Ensured efficient technical support for end-users and clients, and close collaboration with the Quality Assurance team led to a remarkable 30% reduction in production-stage errors
- Conducted comprehensive training sessions for a group of interns, equipping them with in-depth knowledge and understanding of the company's project

PROJECTS

Food Ordering Application

- Utilized React.js, Tailwind CSS, Redux Toolkit, and React Router to create a robust and feature-rich application, ensuring scalability and maintainability.
- Implemented Tailwind CSS to craft engaging and intuitive UIs, enhancing the overall user experience and application performance

- Leveraged Redux to manage the application's state, specifically adding menu items to the cart. This ensured efficient data handling and consistent user experiences across different components.
- Successfully handled live API data to enable real-time updates and smooth data flow within the application. This capability enhanced the application's responsiveness and provided users with up-to-date information.
- Gained insights into the differences between functional and class-based components, enabling informed architectural decisions. This understanding facilitated the creation of a well-structured and maintainable codebase.
- Implemented comprehensive testing using Jest to ensure code reliability and quality assurance. This rigorous testing approach identified and resolved potential issues, enhancing the overall stability and performance of the application

E-commerce Application
- Architected a responsive UI with React.js components and Redux, optimizing navigation and performance. By integrating JWT and React Context API, ensuring a secure authentication and personalized user features across devices
- Engineered a scalable backend with Node.js, Express.js, and MongoDB, integrated with Restful API for efficient data manipulation and real-time updates.
- Employed advanced React patterns such as HOCs and Render Props for modular code organization and rapid feature development
- Continuously further enhancing the website's features and functionalities, such as implementing advanced search and filtering options, optimizing performance, and enhancing security measures.

SKILLS

Languages: Javascript, PHP, Python, C++

Technologies: Node.js, Express.js, React, Vue.js, Mongo DB, Mongo DB Compass, Mongoose, Postman, PHP Frameworks (Laravel, Codeigniter), Composer, Postman, jQuery, Rest API, Redux, Context-API, Chakra-UI, WebSocket, JWT, ElasticSearch, SQL, Restful API, ES6, Webpack, Bootstrap, CSS, HTML, Git, Github, Tailwind CSS, Graph QL, SVN

Concepts: Object-Oriented Programming (OOP), MVC Pattern, Repository Pattern, Agile Development, Test Driven Development, Object-relational mapping, Relational Database Management System(RDBMS), NoSql, Data Abstraction, Asynchronous Programming

MENTORSHIP

Mentor Interns: E-prima Technology (January 2022 – February 2022)
- Mentored a team of 5 interns providing guidance and instruction on various projects.
- Trained a team in migrating a content management system from CodeIgniter to Laravel, imparting knowledge on architectural design, MVC principles, and workflow to ensure a seamless transition and enhanced development efficiency.
- Facilitated training sessions and workshops to develop intern's technical skills in Laravel and JavaScript
- Evaluated interns' progress, provided constructive feedback, and contributed to their professional development.
- Trained interns on best practices, industry standards, and company policies, resulting in improved code quality, adherence to project deadlines, and a more cohesive and productive team dynamic.

CERTIFICATIONS, TRAINING
- MERN Stack Development Certification
- Advanced Git and GitHub Training
- Linux System Administration Workshop
- JavaScript Algorithm and Data Structure Course
- Workshop On Restful API with Node.js and Express
- Agile Development Methodologies Workshop

EDUCATION

Nepal College of Information Technology (September 2014 — September 2018) — Bachelor in Software Engineering

NOTABLE COURSE WORK

Data Structure and Algorithm, Object Oriented Software Development, Fundamental of Software Engineering, Software Project Management, Computer Network, System Programming, C programming, Java Programming, Programming in C++, Database Management System