Mridul Roy

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Skills

Languages: C/C++, Java, Python, PHP, HTML, CSS , JavaScript, SQL, NoSQL

Technologies & Tools: AWS, MongoDB, Spring, Angular, ReactJS, Redux, NEXTJS, Laravel, TensorFlow, Laragon, Node.js, Agile, Bootstrap v5.0, Symphony, Xdebug, CI/CD, Artisan CLI, Eloquent ORM, Tailwind CSS.

Work Experience

Windstream Communication LTD, Dhaka   Aug 2023 - Dec 2024
Technology Associate
- Design, develop, and maintain PHP Applications including Laravel, CodeIgniter.
- Integrate applications with third-party services.
- Develop application with Middleware, Session, CSRF Protection.
- Manage server environments (Nginx, Apache) for optimal deployment and performance.
- HTML, CSS, Bootstrap v5.0, JavaScript, PHP, Laravel, ReactJS, Redux, Angular, MySQL, Ajax, PDO, jQuery.

Education

United International University   CGPA: 3.33/4
B.Sc. in Computer Science and Engineering
Relevant Coursework: Object Oriented Programming, Databases, Discrete Math's, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Information Retrieval, Image Processing

Project Work

- **MelodyStream :** Developed a web based music application built with React.js for an interactive and user-friendly interface. Used 'useState' for managing state variables like current track, playback status, volume, and playlists. Integrated with music APIs for fetching and streaming tracks. HTML, CSS, JavaScript, ReactJs, React Hook.

- **DynamicRoute Optimization System :** Applied Dijkstra's shortest path algorithm to find the route which takes the shortest time to travel from source to destination in a given road network with randomly generated traffic. Implemented methods to avoid collisions between vehicles by dynamically changing their speeds. Used C++ and OpenGL library for simulation. C++, OpenGL

- **Simple Portfolio Web App :** Developed a user-friendly portfolio web app using PHP and Laravel with a custom CMS for seamless content management. Integrated jQuery and AJAX for dynamic, responsive features and real-time interactions. Implemented middleware for secure access control, ensuring a streamlined user experience and enhanced security.

- **Ecommerce Based Web Application :** Ability to manage orders, including order tracking, payment processing and order fulfillment. Manage user accounts, including registration, login, authentication and authorization. Optimize the website for search engines, including blog posts, pages. HTML5, CSS3, PHP , Laravel ,Composer, JavaScript, MySQL, Ajax, SSLCOMMERZ.

- **Event Management System :** This project is a web-based Event Management System built with PHP and Laravel. It provides secure user authentication (password hashing) and role-based access control (admin and non-admin). Admins have full control over event management (creating, updating, viewing, deleting) and user management. The system allows online event registration with capacity limits, paginated and filterable event displays, and attendee list downloads (CSV). Search functionality is implemented across users, events, and registrations.

Awards and Certificates

- Professional Web Development from Creative IT Institute.
- Full Stack Web Development with MERN from OSTAD.