

Mridul Roy

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Skills

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

Technologies & Tools: AWS, DynamoDB, MongoDB, SQS, Lambda, Athena, Kuber- netes, Docker, Splunk, Kafka, Spring, Angular, ReactJS, Redux, NEXTJS, Laravel, TensorFlow

Work Experience

Windstream Communication LTD, Dhaka

Aug 2023 - Running

Technology Associate

- Performance and scale engineering of data services including high availability and multi-site replication for SQL and NoSQL databases as well as streaming and messaging services, such as Dynamo, MongoDB, Kafka or Amazon Kinesis.
- Automate application, platform and infrastructure deployment using CI/CD solutions that leverage a wide range of technologies, such as Jenkins, Travis, CircleCI, GitHub Actions, GitLab or GitOps.
- Python, Django, MySQL, TypeScript, LightGBM, TensorFlow, Ansible.

Creative IT Institute, Dhaka

Sep 2022 - Mar 2023

Trainee Software Development Engineer

- 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.
- 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.

Awards and Certificates

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