



RAYHAN AHMED RAKIB

BS in Computer Science & Engineering
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Experience

Union Applications Support Officer

Aug 2024 - Present

IUCN - International Union for Conservation of Nature
Global Information System Group



Banani, Dhaka 1213

Responsibilities:

- Contribute to the architectural design of web applications
- Configuration and customization of the Drupal/PHP applications
- Maintenance and upgrades of the Drupal/PHP applications
- Ensure integration with other IUCN systems through web services and data warehouse
- Integrate testing as part of development process
- Maintain complete systems documentation

Senior Software Development & Information Technology Officer

Jun 2021 – Aug 2024

Democracy International Inc



Gulshan, Dhaka 1212

Responsibilities:

- Develop & Maintain Web Application for Research, Monitoring & Evaluation team.
- Develop & Maintain Official website & portal of several stakeholders of DI.
- Manage servers for organization's administrative web applications.
- Maintain Finance & Accounting web application for operations team.
- Automate the deployment & backing up organization's portal databases.
- Provide Networking & IT supports to Program & Operations Team.
- Manage Software Developer for developing DI stakeholders and internal web applications.
- Manage Field office IT Operations, Yearly Budget, IT Devices, Software Services.
- Collaborate with Home Office (USA) IT team for maintain excellent service in field level offices.

Software Developer (Intern)

Mar 2019- Jun 2019

BRAC IT Service Ltd.



Gulshan, Dhaka 1212

Responsibilities:

- Trained in industrial software development lifecycle & maintain process.
- In depth experience working with object-oriented programming frameworks.
- Maintaining documentations on software.

Skills & Expertise

Programming Languages:

- PHP
- Python
- JavaScript
- Java
- SQL

Frameworks:

- Laravel
- Django
- Vue
- React
- Tailwind
- Bootstrap
- Node

Tools & Technologies:

- Git
- Docker
- PHP-Unit
- Shell Script
- Chart.js
- Job que
- Automated Backup

Database:

- MySQL
- PostgreSQL

Operating System/Environment:

- Arch Linux (Primary)
- Ubuntu
- Windows

Projects

Electoral Landscape Mapping

Electoral Landscape Mapping project has been proposed by Research team of Democracy International with the supervision of the Chief of Party. This project offers a fully interactive online map of Bangladesh projecting several electoral, public opinion survey and political violence data. All data has been processed by the Research Team & GIS team and converted to geospatial data that has been integrated to the cloud map platform. This map offers a smooth interactive experience and overview of the previous and current electoral and political scenario of Bangladesh based on plenty of data sets.

Key Features:

- Multi-Level role-based authentication system
- Interactive GIS map with self-developed platform.
- Easy user interface with map overview and data references.

Tech Stack

Laravel 10 Breeze Inertia.js React Leaflet.js Tailwind MySQL Docker

GitHub Repository: <https://github.com/Raayhan/Electoral-Landscape-Mapping>

Telephone Survey System

Democracy International Survey System (DISS) is an online interactive telephone survey system that is used by the DI Research team to generate random telephone numbers and conduct telephone surveys with proper sampling, design questionnaires, and analyze and monitor real-time survey data.

Key Features:

- API-based authentication system for survey agents.
- Random mobile number generator using Ajax.
- Specific numbers generator from a given set of numbers.
- Track each call with proper status.
- No scope for conducting false calls.
- Track agent's activities.
- Track survey progress.

Tech Stack

Laravel 10 Vite.js Intertia.js Vue 3 MySQL Tailwind Docker

GitHub Repository: <https://github.com/Raayhan/DI-Survey-System>

Participant Database

A web portal to maintain Democracy International's all event activity and participants information into the cloud database so that it can be used for research, monitoring & analysis. This portal has currently stored more than 1 lac participants data. Data can be filtered by several criteria including date interval, region, district, party, gender etc. and, can be exported as Excel, PDF, CSV files.

Key Features:

- 3 Level Approval System
- Role Based Authentication System
- Generate Report as Excel
- Filter data with query builder
- Data charts in dashboard

Tech Stack

Laravel 10 Sanctum Intertia.js Vue 3 Vite.js Chart.js MySQL Docker

GitHub Repository: <https://github.com/Raayhan/DI-Participant-Database>

Administration Information System

A management information system that includes all staff information, recruitment process, salary, documents etc. It also has the system to store update all the DI assets identified by unique tracking number. This platform mainly used by the HR & Logistics team however logistics team is not allowed to manage, view employee information they only allowed to work on asset management. There are search option using ajax where anyone can instantly search for an asset by tracking number. Employees data and Assets data can be exported as report by generating custom report with specified fields of data into excel format.

Key Features:

- Role Based Authentication System
- Ajax Search
- Generate excel report with custom columns.

Tech Stack

Laravel 10 Sanctum Intertia.js Vue 3 Vite.js Chart.js MySQL Docker

GitHub Repository: <https://github.com/Raayhan/DI-EIS>

Violence Incident Monitoring System

A web application to store data about all political violence that occurs with reference to the daily newspapers. This application is used by Research and Monitoring Team of DI to report to the USAID & UKAID. Incidents are being stored as objects. Incidents contains Reason, Victims, Perpetrators, Party, Date, and Gender Data. Data can be filtered according to the column and can be exported as excel and csv files. In the dashboard, an overview of the entire database is displayed mentioning the total number

of incidents, number of injuries, number of fatalities, and number of males & females. Also, there are graphs displaying data based on Divisions of Bangladesh.

Tech Stack

Laravel 10 Sanctum Intertia.js Vue 3 Vite.js Chart.js MySQL Apex Charts

GitHub Repository: <https://github.com/Raayhan/DI-VIMS>

Travel Calendar

As per DI Administration requirements staff travelling should be tracked by a unique tracking number. Therefore, DI Travel Calendar has been developed where users need to fill out a simple travel form which will automatically generate tracking numbers and sent to user's email using Laravel Notification. A calendar is also developed using Full Calendar API so that everyone can track who is traveling when & where in which purpose.

Tech Stack

Laravel 10 Sanctum Intertia.js Vue 3 Vite.js Full Calendar API MySQL Notification

GitHub Repository: <https://github.com/Raayhan/DI-Travel-Calendar.git>

Digital Recruitment System

Political parties must go through a recruitment process to recruit members. Democracy International made this process much easier by developing digital member recruitment system. Users will be able to submit recruitment registration form to the system to join a political party. System admin will verify the information and ask the user for payments. User will be able to insert payment information to the system. After confirmation user will be recruited by the party. Users will be able to check their status of the application.

Tech Stack

Laravel 10 Sanctum Livewire JavaScript MySQL Notification

GitHub Repository: <https://github.com/Raayhan/Digital-Recrutiment-System>

References

Lesley Richards Deputy Chief of Party (Supervisor) Democracy International Inc Email: LRichards@democracyinternational.com Phone: 8801313917887	Golam Mostofa Senior Director, Research & MEL Democracy International Inc Email: GMostofa@democracyinternational.com Phone: 8801729099049
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