



## Contact

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### Portfolio

<https://zaw-phyo-portfolio.vercel.app/>

### GitHub

<https://github.com/Justro666>

## Education

2018

### Bachelor of Arts in English

Yangon University of Distance Education

2021

### Information Technology

Passport Examination (IP)

## Expertise

- HTML, Tailwind CSS, Javascript
- VueJS, Inertia, Laravel, MySQL
- Reactjs, NodeJS, Express JS, MongoDB, Postgres, Redis, Prisma,
- GitHub, GitLab CI/CD, Docker
- Digital Ocean(Droplets, Spaces, Databases)
- AWS Elastic Beanstalk, Elastic Container Registry

## Language

### English

<https://www.efset.org/cert/HYWCSV>

# Zaw Phyo Aung

## Software Engineer

Passionate software engineer with an insatiable curiosity for learning new technologies and a knack for solving complex problems through coding and debugging. Able to effectively self-manage during independent projects, as well as collaborate as part of a productive team.

## Experience

### Sept, 2020 - Dec, 2023

Ex;brain Technology (Yangon, Myanmar)

### Software Engineer

Sept 2020 - May 2021:

Responsibilities As : (VILT Stack)

- Led software development endeavors using the VILT (Vue, Inertia, Laravel, Tailwind) stack, a robust and versatile technology ensemble.
- Notably contributed to the successful delivery of two pivotal projects in a dynamic eight to nine-month period, garnering invaluable expertise in the software development lifecycle.
- Demonstrated a high level of proficiency in Vue.js, Inertia.js, Laravel, and Tailwind CSS, showcasing a dedication to crafting dynamic and feature-rich web applications.
- Excelled in the strategic hosting and deployment of applications on Digital Ocean servers, skillfully configuring Nginx and Linux to establish a secure, high-performance, and efficient hosting environment.
- Took charge of the continuous enhancement, maintenance, and optimization of VILT projects, resulting in substantial performance improvements and an elevated user experience.

June 2021 - Dec 2023:

Responsibilities:

- Spearheaded the development of a broad array of RESTful APIs using Node.js to fulfill the specific requirements of ReactJS applications.
- Demonstrated expertise in Node.js and API design by skillfully crafting and maintaining more than 200 RESTful APIs.
- Employed advanced technologies, including JWT (JSON Web Tokens), CryptoJS, NodeMailer, and WebSocket, to guarantee secure and efficient data exchange.
- Engineered data export functionalities to Excel, enhancing data management and reporting capabilities.
- Integrated real-time communication capabilities using Web Sockets, resulting in dynamic, responsive features.
- Ensured robustness and reliability by leveraging FireCamp for thorough API testing.
- Established a robust CI/CD (Continuous Integration/Continuous Deployment) pipeline on GitLab, streamlining deployments to AWS Elastic Beanstalk.
- Proficiently managed data in diverse application scenarios, skillfully navigating both relational databases (e.g., Prisma-MySQL) and NoSQL databases (e.g., Node.js MongoDB).
- Write clear and comprehensive API documentation for developed APIs.

# Projects

## Project Title: Online Education Management System

Objective: Develop a comprehensive education system for online classes, enabling efficient student and instructor management, performance tracking, and seamless access to educational materials.

### Description:

- Created a user-friendly web application for online education, catering to both instructors and students.
- Utilized the Laravel stack with Vue.js and incorporated Tailwind CSS for modern UI styling.
- Developed an email invitation system for streamlined student account creation on the admin side.
- Designed and implemented various CRUD (Create, Read, Update, Delete) operations for data management.
- Developed email templates for effective communication with students.
- Managed a cronjob for monthly email services, including sending out student ranks.
- Empowered instructors with features to:
  - Track student attendance
  - Manage exam records
  - Easily access student progress data
- Provided students with the ability to:
  - View daily class recordings.
  - Access educational blogs.
  - Review lecture materials at any time.
  - Designed an intuitive user interface for smooth navigation.
  - Implemented robust security measures to protect user data.

### Key Features:

- Student Management: Track and manage student profiles, attendance, and academic records.
- Instructor Dashboard: Empower instructors with tools to monitor and assess student performance.
- Multimedia Integration: Seamless access to class recordings, blogs, and lectures.
- User-friendly Interface: Intuitive design for an enhanced user experience.
- Data Security: Implement strong security measures to protect user data.

### Technologies Used:

- Frontend: Vue.js, Tailwind CSS
- Backend: Laravel
- Deploy: Digital Ocean Droplet with nginx server.

### Results:

- Successful creation of an online education management system with a positive impact on both instructors and students.
- Improved class organization and student performance monitoring.
- Enhanced accessibility to educational materials.
- Positive user feedback and high user engagement.

## **Web Development with Node.js, Express.js and MongoDB:**

From June 2021 to the present, my focus shifted towards REST API development for two projects and one project experience for ReactJs, utilizing the following technologies:

### **Project Title: Human Resources Management Application**

**Objective:** Develop a comprehensive Human Resources Management Application, featuring key functionalities such as attendance tracking, leave management, custom calendars, attendance reports, and more. The project includes REST API development to power the backend, making use of ReactJs, Node.js, Express.js, MongoDB, Web Sockets, and email communication.

#### **Description:**

- Developed a Human Resources Management Application with a focus on key features like attendance tracking, leave management, custom calendars, attendance reports, and more.
- Designed and implemented a robust CRUD system for managing company news, integrating ReactJS and React Hooks for seamless user interactions.
- Utilized Axios for efficient API consumption, ensuring smooth data retrieval and manipulation.
- Leveraged Node.js and Express.js to create robust REST APIs that serve as the backend for the application.
- Utilized Axios for efficient API consumption, ensuring smooth data retrieval and manipulation.
- Implemented secure user authentication using JWT (JSON Web Tokens) and bcrypt to protect sensitive user data.
- Utilized MongoDB as the database technology to ensure efficient data storage and retrieval, supporting the HR functions.
- Integrated Web Sockets to enable real-time communication and interactions within the application, facilitating seamless employee collaboration and communication.
- Utilized Node Mailer for sending emails to notify users of various events, updates, and account-related actions such as user account creation and invitations.

#### **Key Features:**

- **Attendance Management:** Track and manage employee attendance records, including leaves, late, and early departures.
- **Leave Management:** Implement a system for employees to request and manage leave, maintaining leave records.
- **Custom Calendar:** Provide employees with a custom calendar for scheduling and managing their work-related activities.

- Attendance Reports: Generate and send attendance reports to HR and management for better decision-making.

**Technologies Used:**

- Backend: Node.js, Express.js
- Database: MongoDB
- AWS-S3-CLI
- JWT Authentication
- Email Communication: Node Mailer

**Project Title: Music Labeling Application**

**Objective:** Develop a Music Labeling Application that enables users to upload, master, and label music, as well as manage music documentation and group members with distinct roles. This project utilizes Node.js and Express.js for REST API development.

**Description:**

- Created a Music Labeling Application that empowers users to upload, mastering, and label music tracks and labeling process.
- Leveraged Node.js and Express.js to develop REST APIs that serve as the backbone of the application, enabling seamless communication between the front end and database.
- Implemented secure authentication mechanisms using JWT (JSON Web Tokens) and bcrypt to protect user data and ensure privacy and data integrity.
- Utilized MongoDB as the database technology to efficiently store and retrieve music files and related data.
- Designed features for managing music documentation, helping users maintain comprehensive records for their music projects.
- Developed functionality for creating groups and assigning distinct roles to members, enhancing collaboration and organization within music label organizations.

**Key Features:**

- Music Upload and Labeling: Enable users to upload, master, and label music tracks for organized management.
- Music Documentation: Provide tools for maintaining comprehensive documentation related to music projects, simplifying record-keeping.
- Group Management: Create and manage groups within music label organizations, allowing distinct roles for members.
- User Authentication: Implement secure user authentication using JWT and bcrypt to safeguard user data.

**Technologies Used:**

- Backend: Node.js, Express.js
- Database: MongoDB
- Real-time Communication: Web Sockets
- Email Communication: Node Mailer

**Project Title: Bridge - Resume Creation Platform for Job Seekers in Japan**

**Objective:** To develop a user-friendly platform specifically tailored for job seekers in Japan, facilitating the creation of resumes in the Japanese format. The project focused on creating RESTful APIs to power mobile and web applications, emphasizing Node.js development for backend functionality.

**Description:** As a Backend Developer for the Bridge project, I was instrumental in building a comprehensive platform for job seekers in Japan.

**Key contributions include:**

- Development of RESTful APIs from scratch using Node.js, ensuring seamless integration with mobile and web applications.
- Implementation of JWT for robust authentication and authorization protocols, safeguarding user data and enhancing platform security.
- Integration of Joi for data validation and Nodemailer for efficient email communication, including a cronjob system for newsletters.
- Utilization of BullMQ for streamlined email queue management, ensuring timely delivery of notifications.
- Seamless integration of Prisma with MySQL for database management, facilitating efficient data storage and retrieval.

**Outcome:** The Bridge project successfully provided a tailored platform for job seekers, enabling them to create resumes in the specific format required by the Japanese job market. Through the implementation of secure authentication, efficient API development, and robust email communication features, the platform achieved high user engagement and satisfaction.

**Technologies Used:**

- Backend: Node.js, Express.js, prisma, bullmq, cronjob
- Database: Mysql
- AWS-S3-CLI
- JWT Authentication
- Email Communication: Node Mailer

## **Deployment and Hosting:**

### **Key Responsibilities:**

- Assumed the crucial role of overseeing the deployment and hosting of multiple projects.
- Orchestrated the deployment of applications on a robust LEMP (Linux, Nginx, MySQL, PHP) server, ensuring seamless and reliable operation.
- Prioritized security by implementing Let's Encrypt (Certbot) SSL certification, fortifying applications with top-notch security protocols.
- Efficiently harnessed Nginx as a reverse proxy service to enhance server performance and reliability.
- Chose Digital Ocean as the hosting provider, capitalizing on their resilient infrastructure for scalable and efficient hosting.
- Managed data storage with precision by making use of Digital Ocean Spaces for data storage and databases for streamlined data management.