



# KHANT HMUE

## Full Stack Web Developer

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## Education

### University Of Information Technology

B.C.Sc.High Performance Computing  
[2016-2024]

## Certificates

- Information Technology Passport Examination (IP)
- Fundamental Information Technology Engineers Examination (FE)

## Tech Stacks

- HTML, CSS, JavaScript, Typescript, jQuery
- C#, Node.js, Java, Python, PHP
- ASP.NET Core, MERN, Laravel, Spring Boot, Flask, Django
- Bootstrap, Tailwind
- MySQL, PostgreSQL, Firebase, MongoDB
- Git, Azure Devops, Restful API

## About Me

With over four years of hands-on experience in web development, including one year as a full stack web developer, I have honed my skills in creating efficient and innovative and progressive web applications. My journey has equipped me with a strong foundation in both front-end and back-end technologies. I am eager to leverage my academic background and practical experience to contribute effectively to a forward-thinking team in web development field. My commitment to continuous learning and passion for cutting-edge technology drive me to deliver high-quality, scalable solutions.

## Skills

- Fast learner with strong adaptability to new environments and proficiency in developing web applications using various languages.
- Skilled in building and deploying secure, lightweight Progressive Web Applications (PWA) with microservice architecture.
- Experienced in **VMware, ESXi, Microsoft Azure, GCP, and AWS and Docker** with a focus on deploying and managing scalable and efficient solutions.
- Proficient in CRM implementation, SCCM, and Microsoft 365, with expertise in deploying and managing solutions effectively.

## Experience

### Junior Full-Stack Developer Haulio - Singapore

May 2022 - June 2023

Junior Full-Stack Developer at Haulio

As a junior full-stack developer at Haulio, I contributed to developing and maintaining web applications for the logistics industry, leveraging various technologies, message brokers, and microservices architecture.

- **Programming Languages:** C#, JavaScript
- **Web Frameworks:** ASP.NET Core, Angular, Vue.js
- **Real-Time Communication:** SignalR, Pusher.js
- **Message Broker:** Leveraged Azure Service Bus for seamless communication between microservices in a distributed architecture.
- **Payment Integration:** Integrated payment gateways for seamless transaction handling

Key Contributions:

- Collaborated with senior developers to design and implement scalable features, including real-time updates using SignalR and Pusher.js for live tracking and notifications.
- Integrated Azure Service Bus as a message broker, enabling asynchronous communication and reliable messaging between microservices across servers.
- Developed and integrated payment gateways to facilitate secure and seamless transactions.
- Debugged and resolved complex technical issues, improving application stability and user experience.
- Integrated third-party APIs to facilitate seamless data exchange with external systems.

- Worked with the UI/UX team to implement responsive designs, improving the user interface and satisfaction.
- Proficiently used version control systems for efficient code management and collaboration.

My experience at Haulio provided hands-on expertise in building scalable web applications, implementing microservices architecture, integrating Azure Service Bus, and handling payment processing.

Junior Microsoft System Engineer

BIM - Myanmar

May 2024 - July 2024

As a System Engineer Intern at an SI company for three months, I gained extensive hands-on experience in various aspects of system infrastructure. As a System Engineer Intern, I developed practical skills in Microsoft technologies like Azure, Office 365, and Windows Server, while gaining hands-on experience in licensing, Active Directory, CRM, and SCCM implementations, and deepening my understanding of enterprise system configuration and management.

## Projects

EcommerceX

July 2024 - August 2024

[MERN]

Developed a full-featured eCommerce platform utilizing the MERN stack and JWT authentication to manage products, users, and orders with a modern, responsive design.

- Frontend (MERN Stack): Created a dynamic user interface with React.js, featuring product listings, shopping cart management, and checkout functionality. Utilized React Router for seamless navigation and Redux for state management across the application.
- Backend (Node.js + Express.js): Implemented the backend with Node.js and Express.js, handling RESTful API requests for user authentication, product management, and order processing. Integrated JWT for secure user authentication and role-based access control.
- Database (MongoDB): Managed data storage for users, products, and orders with MongoDB, ensuring scalable and efficient NoSQL data management.
- Authentication: Implemented JWT-based authentication, securing routes and user sessions with token validation for both users and admins.

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Supply Chain Management

Feb 2024 - March 2024

[MERN + Hyperledger Fabric]

Developed a decentralized application (dApp) for supply chain management, integrating the MERN stack with Hyperledger Fabric blockchain technology for secure and transparent transactions.

- Frontend (MERN Stack): Utilized React.js for a dynamic and interactive user interface, enabling users to create accounts, manage products, and track supply chain operations. The frontend operates on port 3000, connecting seamlessly to the blockchain backend.
- Backend (Node.js + Hyperledger Fabric): Implemented the backend using Node.js and integrated it with Hyperledger Fabric, running on port 4000, to manage blockchain interactions. Hyperledger Fabric ensured decentralized and immutable tracking of product information and transaction history, enhancing transparency and security in the supply chain.
- Blockchain Integration: Designed smart contracts to handle core supply chain operations, such as product creation, order management, and product shipment. All transactions were recorded on the blockchain, enabling tamper-proof tracking and verification.

This project highlights the integration of blockchain with traditional web technologies to build a secure and transparent supply chain management system.

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**UniNotify App**  
**Aug 2023 - Sept 2023**  
**[MERN + PWA]**

Developed a Progressive Web Application (PWA) using the MERN stack (MongoDB, Express.js, React.js, Node.js), designed to integrate class schedules, weather updates, and real-time alerts for users by integrating with **Learning Management System(LMS)**.

The application architecture leveraged:

- React.js for a responsive frontend, with reusable components ensuring a seamless user experience across devices.
- Node.js and Express.js for the backend, enabling efficient API handling and real-time data synchronization.
- MongoDB for a NoSQL database, optimizing data storage for user profiles, schedules, and alert data.
- PWA Features: Enabled offline access and mobile-native functionality by implementing service workers, allowing the app to cache resources and provide a native app-like experience on mobile devices.
- Push Notifications: Integrated push notification services to deliver real-time updates, keeping users informed of schedule changes, weather alerts, and important notifications.

Focused on accessibility and user-friendly navigation, ensuring the app's core functionality remains effective in both online and offline environments.

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**BookInfo**  
**Nov 2021 - Dec 2021**  
**[Laravel, Tailwind, Jquery, API and CRUD Functionality]**

Developed a website utilizing the Google Books API to provide detailed book information and create a community for users to share their favorite books.

**Project Architecture:**

- Laravel: Managed both server-side logic, data handling, providing robust API integration and CRUD functionality, and frontend interface.
- Tailwind CSS: Enabled a modern, responsive design with customizable UI components.

- jQuery: Enhanced interactivity and dynamic content updates on the frontend.

**Key Features:**

- Google Books API Integration: Accessed comprehensive book data for search and display.
- CRUD Functionality: Implemented Create, Read, Update, and Delete operations for user-generated content.
- Community Sharing: Allowed users to contribute and discover favorite books within the community.

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**Movie App**  
**September 2021 - October 2021**  
**[Laravel, Tailwind, Livewire]**

Developed a movie information website with interactive search functionality and a vast movie database.

**Project Architecture:**

- Laravel: Managed both backend server-side logic and frontend UI, integrating movie data via API and handling CRUD operations.
- Tailwind CSS: Provided a responsive and modern design with utility-first styling.
- Livewire: Enabled dynamic, real-time updates and interactive components without full page reloads.

**Key Features:**

- Movie API Integration: Accessed and displayed extensive movie information.
- Interactive Search: Implemented real-time search and filtering for enhanced user experience.

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**Covid-19 Info**  
**Nov 2020 - Nov 2020**  
**[Flask, Bootstrap]**

Developed a web application to provide up-to-date COVID-19 information for any country, featuring:

**Project Architecture:**

- Flask: Handled backend server-side logic, API integration, and data processing for real-time COVID-19 statistics.
- Bootstrap: Delivered a responsive, user-friendly frontend design for seamless access and navigation across devices.

**Key Features:**

- Country-Specific Search: Allowed users to search for COVID-19 data by country.
- Global Status Visualization: Presented global statistics through both textual data and visual representations.

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**GameDev**  
**Second Year Project**  
**August 2018 - October 2018**  
**[PHP, JavaScript]**

A project aimed at teaching the basics of canvas-based game development, featuring an online coding editor and interactive quizzes.

**Project Architecture:**

- PHP Backend: Managed user sessions and handled server-side logic for the online editor.
- JavaScript Canvas API: Used for creating and rendering game elements, including sample games like tic-tac-toe and minesweeper.
- Online Editor: Implemented for real-time coding and testing of canvas-based games.
- Quizzes: Developed to assess users' understanding of game development concepts.

**Key Features:**

- Interactive Learning: Provided practical examples and a coding environment for hands-on experience.
  - Educational Quizzes: Tested and reinforced knowledge acquired through the lessons and sample games.
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**Ferry Management System**  
**Third Year Project**  
**June 2019 - August 2019**

Developed a comprehensive ferry management system designed to streamline operations and enhance user control.

**Project Architecture:**

- Backend: Managed server-side logic, including ferry scheduling, tracking, and notification features.
- Database: Handled data storage and retrieval for schedules, passenger information, and transactions.
- Frontend: Provided a user-friendly interface for ferry operators, passengers, and administrative staff.

**Key Features:**

- Scheduling and Tracking: Enabled ferry scheduling and real-time tracking for better management.
- Notifications: Automated notifications for schedule changes and updates to keep users informed.
- Payment Processing: Facilitated streamlined payment transactions for ferry services.

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More projects on Github

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## CLASS PROJECTS

### OpenNebula Architecture Lab Implementation

Feb 2024 - Mar 2024

#### [OpenNebula, VMware, Hardware Lab]

- Designed and implemented OpenNebula architecture in a hardware lab environment, leveraging VMware ESXi and containerization technologies.
- Set up and configured virtual infrastructure to simulate real-world cloud environments, ensuring efficient resource management and deployment automation.
- Gained hands-on experience in cloud orchestration, containerization, optimizing resource allocation, and managing virtualized data centers.
- Focused on providing scalable and flexible infrastructure solutions, supporting a variety of containerized applications and services within the lab setup.

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### Performance Evaluation with ApacheBench

Jul 2023 - Sep 2023

Conducted performance evaluation utilizing ApacheBench, assessing the efficiency and responsiveness of web servers through simulated load testing scenarios.

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### Image Transformation AI

Jul 2023 - Sep 2023

Developed an image transformation AI using Python, PyTorch (Deep Learning Framework), and Generative Adversarial Network (Neural Network) to generate anime-style images from input images.

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### GridSim Simulation

Jul 2023 - Sep 2023

Executed GridSim simulations to model and analyze distributed computing scenarios, leveraging grid computing principles for effective performance evaluation and resource allocation strategies.

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### Galera Cluster Implementation

#### HPC Cluster Projects

Feb 2020 - Mar 2020

Implement Galera Cluster for efficient database testing with 3 nodes, utilizing cluster control software for remote access and LAN network management. Orchestrated a multi-master setup, enabling seamless data synchronization across nodes and visualized cluster status through a user-friendly web UI.

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### Zabbix Monitoring Tool Testing

Feb 2020 - Mar 2020

Set up and tested Zabbix monitoring for complete system control. Ensured smooth remote access, monitored the network, and provided real-time visualization for improved performance and reliability.

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### HadoopPig Implementation

Feb 2020 - Mar 2020

Executed Zabbix monitoring setup, testing, and configuration for comprehensive system oversight. Ensured seamless remote access, network monitoring, and real-time visualization, optimizing performance and reliability.

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# Academic Experiences and Researches

I authored for two papers in my academic years to show my interest and experiences related with the web development area.

## **'Toward Context-Aware Notification Service in Universities' - [2024]**

As part of my academic contributions, I published a paper titled "Toward Context-Aware Notification Service in Universities," presented at **ICCA 2024**. This research focused on developing a notification service tailored to the dynamic needs of university environments, utilizing Progressive Web App (PWA) technology to enhance user engagement and accessibility. The paper explored how PWAs can provide a reliable, offline-capable, and responsive notification system that adapts to contextual factors such as location, schedule, and user preferences. By leveraging PWA features like push notifications and offline support, I demonstrated innovative approaches to improving communication efficiency and information dissemination within academic institutions.

## **'Microservices vs Monoliths: A Comparative Analysis and Problem-Solving Approach in Web Development Area' - [2024]**

I authored the paper "Microservices vs Monoliths: A Comparative Analysis and Problem-Solving Approach in Web Development Area." This research provided an in-depth comparison of the pros and cons of microservice and monolithic architectures, emphasizing the benefits of microservices in terms of scalability, resilience, and maintainability. The study included extensive load tests and performance evaluations, implemented using the MERN stack for both architectural models. This work underscored my ability to analyze and implement modern software development paradigms, offering valuable insights into optimizing web application architecture.

## **Participation in Programming Contests**

- **2018 ICPC Asia-Yangon Regional Programming Contest:** Competed in a prestigious regional programming contest, where I showcased my problem-solving skills and coding abilities in a competitive environment. **[Java Programming Language]**
- **2019 Myanmar Collegiate Programming Contest:** Participated in the national collegiate programming contest, demonstrating advanced algorithmic thinking and teamwork to tackle complex programming challenges. **[Java Programming Language]**

## **Kattis Problems Java, Python**

Successfully tackled programming challenges on Kattis, showcasing my problem-solving skills and proficiency in coding. This experience has not only strengthened my coding abilities but also instilled a practical understanding of algorithmic thinking in diverse scenarios.

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You can check my name in here.

<https://open.kattis.com/universities/uit.edu.mm>