Htet Lin Maung

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EXPERIENCE

Software Developer / Team Lead

Myanmar Information Technology
November 2019 – Present

As a Team Lead, I spearheaded the development of pivotal projects, including a COVID vaccine center management system and mobile banking & wallet apps for local banks. My leadership ensured successful team collaboration and project execution. Integrating GitLab CI/CD enhanced our workflow efficiency and reliability.

I made substantial improvements in system performance by optimizing SQL pooling, conducting thorough load testing, and implementing effective scaling and caching strategies. In our Node.js-based microservices, I led the implementation of a Node cluster, enabling the server to fully utilize the hardware's CPU capabilities and handle over 10,000 transactions per second. My role has been integral in driving innovation and delivering high-performance solutions.

Front End Developer

Thetys
June 2018 – November 2019

As a Front End Developer at Thetys Company, I dedicated a year and a half to creating seamless single-page applications (SPAs) utilizing Vue.js. My role involved translating complex designs into highly interactive and user-friendly interfaces, ensuring optimal performance and user experience across various devices and browsers.

EDUCATION

Bachelor of Engineering in Electronics and Communication

West Yangon Technology University
2013 – 2018

SKILLS

Rust

Go

Javascript

Typescript

Node.js

Python

Java

React / Vue / Angular / Next.js

Flutter

Docker

MongoDB

PostgreSQL

HOBBIES

I have a keen interest in developing NPM packages, striving for high-performance in software development with Rust, and sharing my knowledge through teaching. I find inspiration in uplifting others and contributing to the tech community.

PROJECTS AND ACHIEVEMENTS

Watch Vault by Diggie

Project Overview: Watch Vault by Diggie is a Flutter mobile application designed for the online sale of branded watches. It provides a reliable platform for sellers to showcase authentic products, ensuring a comprehensive user experience.

Key Features: Robust API developed in Rust; Real-time communication using InstantIO; Integration with WebWand for invoice PDFs and image generation.

Technology Stack: Flutter Rust InstantIO WebWand

Download Links:
Google Play: https://play.google.com/store/apps/details?id=com.watchvault.app001
App Store: https://apps.apple.com/mm/app/watch-vault-by-diggie/id6469529196

WebWand

Project Overview: Developed as a powerful Node.js microservice, WebWand leverages Puppeteer to automate a wide range of complex web interactions, including data harvesting, user experience testing, and digital content archiving.

Key Features: Detailed screenshots capture, bespoke script execution, navigation through authentication barriers, robust web scraping, and streamlined form submissions.

Technology Stack: Node.js Puppeteer Docker

GitHub Repository: https://github.com/HtetLinMaung/webwand

InstantIO

Project Overview: InstantIO is a microservice designed to enhance real-time interactions in web applications, showcasing its capabilities on the Node.js platform. It utilizes Socket.IO for efficient and scalable WebSocket communication.

Key Features: Robust WebSocket communication, efficient scalability, and rapid deployment packaged as a Docker container.

Technology Stack: Node.js Socket.IO Docker

GitHub Repository: https://github.com/HtetLinMaung/instantio

Report Forge

Project Overview: Report Forge is a versatile report generating microservice, packaged as a Docker image. Utilizing Rust and the 'sitetopdf' npm package, it excels in converting HTML into beautifully formatted PDF reports.

Key Features: Easy integration with various projects, automated report generation from HTML to PDF, designed for various application needs.

Technology Stack: Rust sitetopdf Docker

GitHub Repository: https://github.com/HtetLinMaung/report_forge.git

LoadFire

Project Overview: LoadFire is a command-line load testing tool built in Rust, designed to assess the performance of web applications under stress. It enables HTTP load testing with a variety of methods and allows configuration through YAML files.

Key Features: Supports GET, POST, PUT, DELETE, and PATCH methods; load test configurations via YAML; dynamic request payload generation from CSV or Excel files; cross-platform compatibility.

Technology Stack: Rust YAML

Links:
GitHub: https://github.com/HtetLinMaung/loadfire.git
npm Package: https://www.npmjs.com/package/loadfire-rs

sitetopdf

Project Overview: 'sitetopdf' is a command-line tool developed in TypeScript, utilizing Puppeteer for converting web pages into PDFs or images. It offers extensive customization for outputs, including adjustable page formats, margins, and headers/footers for PDFs, and specific viewport sizing for images.

Key Features: Flexible output customization, PDF and image conversion, adjustable page formats and margins, and header/footer addition in PDFs.

Technology Stack: TypeScript Puppeteer Node.js

npm Package: https://www.npmjs.com/package/sitetopdf

sitetopdf-watcher

Project Overview: 'sitetopdf-watcher' is a TypeScript-based Node.js command-line tool that automates the conversion of HTML files to PDFs. It monitors changes in HTML files and triggers the 'sitetopdf' utility to generate updated PDF versions in real-time.

Key Features: Automated conversion of HTML to PDF, real-time file monitoring, instant PDF generation, ideal for developers and content creators needing up-to-date web content in PDF format.

Technology Stack: TypeScript   Node.js   sitetopdf

npm Package: https://www.npmjs.com/package/sitetopdf-watcher

pdfmix

Project Overview: 'pdfmix' is a command-line utility, developed in TypeScript, designed to streamline the merging of multiple PDF files into a single document. It focuses on efficiency and ease of use, allowing users to quickly combine PDFs while maintaining document quality and integrity.

Key Features: Merge multiple PDFs into one file, ease of use, preserves document quality. Ideal for professionals and students needing to consolidate various documents.

Technology Stack: TypeScript   PDF Processing

npm Package: https://www.npmjs.com/package/pdfmix

quickedit-table

Project Overview: QuickEdit Table is a JavaScript library, developed in TypeScript, designed for creating and managing editable tables on web interfaces. It offers a user-friendly approach to table creation and editing, featuring double-click editing and automatic event triggering upon data modification.

Key Features: Easy table editing, double-click data editing, automatic event triggering, and a suite of utility functions for table manipulation.

Technology Stack: TypeScript   JavaScript

npm Package: https://www.npmjs.com/package/quickedit-table

medictrl

Project Overview: Developed in TypeScript, Medictrl is a comprehensive MediaPlayer control for HTML5 video and audio elements. It enhances web applications by offering sophisticated playback control, efficient event handling, and querying capabilities.

Key Features: Advanced playback control, event handling, time and state querying, volume adjustment, fullscreen functionality, and robust error handling.

Technology Stack: TypeScript HTML5

npm Package: https://www.npmjs.com/package/medictrl

myanmar-operator-detector

Project Overview: The Myanmar Operator Detector is a tool designed to accurately identify mobile operators from phone numbers in Myanmar. It streamlines the process of network provider detection, essential for applications needing mobile operator information.

Key Features: Simplifies mobile operator detection, provides accurate and quick identification, useful for customer segmentation, tailored communication, and analytics.

Technology Stack: Data Analysis Telecommunications

npm Package: https://www.npmjs.com/package/myanmar-operator-detector

generateotp-ts

Project Overview: 'generateotp-ts' is a TypeScript-based library for generating and verifying One-Time Passwords (OTPs) using JSON Web Tokens (JWT). It offers customizable OTP generation and secure verification processes.

Key Features: Customizable n-digit OTPs, specific expiration time settings, secure OTP verification with tokens, encoding and decoding mechanisms using JWT.

Technology Stack: TypeScript JWT

npm Package: https://www.npmjs.com/package/otp-generator-ts

nearby-locations-ts

Project Overview: 'nearby-locations-ts' is a TypeScript-based Node.js package for identifying nearby locations within a specified radius. It employs the Haversine formula to calculate geographical distances, offering precise location-based services.

Key Features: Efficiently calculates distances using the Haversine formula, ideal for proximity-based functionalities like location tracking, geofencing, and local search optimizations.

Technology Stack: TypeScript   Node.js

npm Package: https://www.npmjs.com/package/nearby-locations-ts

validate-myanmar-nrc

Project Overview: 'validate-myanmar-nrc' is a TypeScript-based library developed for validating Myanmar National Registration Cards (NRCs). It plays a crucial role in verifying authenticity and format of NRC numbers, essential for accurate data entry and compliance in identification systems.

Key Features: Precise validation of NRC numbers, suited for governance, finance, and personal identification applications, ensuring data accuracy and compliance.

Technology Stack: TypeScript   Data Validation

npm Package: https://www.npmjs.com/package/validate-myanmar-nrc

starless-loadtester

Project Overview: 'starless-loadtester' is a robust command-line program designed for conducting load testing on APIs. It allows developers to simulate high traffic and assess API performance under various stress conditions, identifying potential scalability issues and performance limitations.

Key Features: Simulates high traffic, assesses API performance under stress, valuable for scalability testing and performance analysis, and ensures API resilience and efficiency.

Technology Stack: Javascript   Node.js

npm Package: https://www.npmjs.com/package/starless-loadtester

starless-server

Project Overview: 'starless-server', developed in TypeScript, is a versatile all-in-one web server solution supporting a range of technologies such as Express, GraphQL, Socket.IO, and PeerJS Server. It offers adaptability and simplicity, enabling seamless integration and deployment of various web services.

Key Features: Supports Express, GraphQL, and Socket.IO for robust web application development, along with Peer Server integration. Ideal for creating scalable and efficient web solutions.

Technology Stack: TypeScript Express GraphQL Socket.IO PeerJS

npm Package: https://www.npmjs.com/package/starless-server

mm-money

Project Overview: 'mm-money', developed in TypeScript, is a package for the effortless formatting and calculation of Myanmar Kyats (MMK). It simplifies monetary computations, allowing operations on formatted strings and handling comma separation within calculations.

Key Features: Direct operations on formatted strings like '5,400', '-200', and '900', resolving common issues such as NaN and undefined in financial applications. Ideal for streamlining currency handling in financial data.

Technology Stack: TypeScript

npm Package: https://www.npmjs.com/package/mm-money

mm2engnum

Project Overview: 'mm2engnum', developed in TypeScript, is a plugin for converting numbers from Myanmar script to English numerals. It facilitates cross-cultural data interpretation and enhances accessibility in multilingual applications.

Key Features: Provides seamless translation of Myanmar numerals to English, bridges local and international numeral systems, and ensures data consistency in multilingual contexts.

Technology Stack: TypeScript

npm Package: https://www.npmjs.com/package/mm2engnum