



Htet Lin Maung

Software Engineer
20 Lasalle 20 Alley, Bang Na Tai, Bang Na,
Bangkok 10260

EXPERIENCE

Software Engineer / Cloud Engineer

Nextstep Engineering Software Solutions
June 2024 – Present

- **Migration:** Migrated Flight Profile Optimizer from Windows desktop to **AWS architecture**.
- Deployed with **AWS Lambda**, **API Gateway**, orchestrated using **Step Functions**; data storage via **DynamoDB & S3** using **.NET C#**.
- **Resource Management:** Optimized AWS CDK stacks with **Nested Stacks** to resolve 500 resource limit issue and simplify maintenance.

Software Developer / Team Lead

Myanmar Information Technology
November 2020 – May 2024


- **Leadership:** Directed COVID vaccine system and financial app developments.
- **Banking App:** Built scalable mobile banking platform with **Java** and **Azure Functions**.
- **Wallet App:** Created wallet app using **Node.js Lambda**.
- **CI/CD:** Streamlined workflows with **GitLab CI/CD**.
- **Optimization:** Enhanced system performance through **SQL tuning** and **load testing**.
- **Microservices:** Improved **Node.js microservices** with cluster optimization.
- **Scalability:** Implemented **NGINX** for efficient load balancing.


Front End Developer

Thetys
October 2018 – October 2020

- **Front End Development:** Specialized in SPAs using **Vue.js**, **Vuetify**, and **Vuex**.
- **Design Translation:** Converted complex designs into interactive, user-friendly interfaces.
- **Performance Optimization:** Ensured optimal functionality across various devices and browsers.

CONTACT

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SKILLS

Rust



Go



C#



Typescript



Node.js



Python



Java



React / Vue / Angular / Next.js



Flutter



Docker



MongoDB



PostgreSQL



EDUCATION

Bachelor of Engineering in Electronics
and Communication

West Yangon Technology University
2013 – 2018

PROJECTS AND ACHIEVEMENTS

Watch Vault by Diggie (Closed Source)

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

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>