Nay Htet Khant

FULL STACK DEVELOPER

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SUMMARY

Software Engineer with full-stack developer experience and a keen interest in DevOps and backend technologies. Knowledgeable on MVC design pattern based on current development practices. Continuously learning about AWS and CI/CD pipeline.

SKILLS

Frontend	HTML, CSS, Tailwind CSS, Shadcn
Full-Stack JavaScript	Typescript, Node.js, Alpine.js, React, Next.js, TanStack, Zustand
Backend (PHP)	PHP, Laravel, Reverb
Database	MySQL, PostgreSQL, Redis
DevOps & Tools	Docker, Caddy, Nginx, Git, Linux

EDUCATION

High School Graduated 2024

CS50 | HarvardX (edx) ..... In Progress

PROJECTS

E-Book Digital Storefront with Stripe Payments

Laravel | Next.js | Sanctum | Stripe (Cashier) | AWS S3 | MySQL | React Hook Form

- Built a full-stack digital product store with separate customer and admin dashboards for products, orders, and payments, backed by a versioned Laravel REST API with Sanctum token auth.
- Integrated Stripe Checkout via Laravel Cashier and fulfilled orders from webhooks, verifying payment status and stored session ID before marking payments paid and granting product access in one database transaction.
- Calculated order totals from database prices rather than client input to prevent price tampering.
- Delivered files through AWS S3 pre-signed URLs, letting admins upload directly from the browser and customers download purchased files via links that expire after 10 minutes.
- Used Next.js App Router server actions with HTTP-only cookies for token storage, and kept business logic in a service layer with form request validation and API resources.

https://github.com/nayhtetkhant/e-book-api

https://github.com/nayhtetkhant/e-book-web

Real time Group Chat and Video conferencing app

`Laravel` `Next.js` `Docker` `Caddy` `Reverb` `LiveKit` `TanStack Query`

- Created a full-stack real-time communication app for multi-users group chat and video conferencing.
- Used LiveKit (SFU architecture) rather than P2P mesh because this approach saves on client bandwidth and guarantees the stability of video streams.
- Handled real-time messaging using Laravel Reverb (WebSockets) and optimized chat history loading with cursor pagination for smooth infinite scrolling.
- Managed the server and client states using TanStack Query and Zustand, respectively.
- Containerized the whole stack via Docker and set up Caddy as the reverse proxy with local SSL and nip.io routing for testing purposes within the whole local network.

https://github.com/nayhtetkhant/chatn-main
https://github.com/nayhtetkhant/chatn-api
https://github.com/nayhtetkhant/chatn-web

Custom PHP MVC Framework

`PHP (OOP)` `PDO` `MySQL` `Composer`

- Developed a custom lightweight MVC framework from scratch to gain thorough knowledge about modern frameworks' inner workings and the use of design patterns and OOP concepts.
- Implemented an IoC / Service Container using PHP's ReflectionClass to support automatic Dependency Injection (DI) and method type-hinting, inspired by Laravel.
- Developed my own ORM-based database layer that uses PDO to perform secure and object-oriented database operations and prevent SQL injections in MySQL.
- Implemented modular core components including PSR-4 autoloading, custom routing, environment configuration (.env loader), and base Model-View-Controller classes.

https://github.com/nayhtetkhant/mvc-poc

Real-Time Communication (RTC) Proof of Concept

`Next.js` `WebRTC API` `Pusher (WebSockets)` `STUN`

- Built a peer-to-peer real-time communication proof of concept to deeply study browser-level WebRTC internals and bidirectional signaling protocols.
- Implemented Pusher Channels for WebSocket signaling, handling real-time peer discovery, channel subscriptions, and custom event dispatching.
- Integrated the native browser WebRTC API from scratch to manage peer connection handshakes, including SDP Offer/Answer exchange, ICE candidate gathering, and STUN server negotiation.

https://github.com/nayhtetkhant/rtc-poc

User Management System

`PHP` `MySQL` `PDO` `Alpine.js` `JavaScript` `HTML/CSS`

- Built an simple user management web application featuring complete CRUD operations and user authentication.
- Designed the back-end with clean architecture/SOLID design pattern to separate the business logic from the database to provide a modular RESTful API using PHP.
- Implemented raw PDO prepared statements without an ORM to master safe manual SQL querying and prevent SQL injection vulnerabilities.
- Designed a responsive front-end application with HTML/CSS and Alpine.js.

https://github.com/nayhtetkhant/user-management