

KHANT ZAW PHYO



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SUMMARY

Detail-oriented **Computer Science & Engineering Undergraduate** at Myanmar Institute of Information Technology (MIIT) with a strong foundation in web technologies and a passion for building user-intuitive interfaces. Experienced in developing responsive web applications and RESTful APIs through university and hobby projects, with attention to detail in both code and design. A collaborative team player eager to contribute to a dynamic development team while expanding skills in backend technologies and solving real-world problems.

EDUCATION

B.Eng. (Hons.) in Computer Science & Engineering

2019 - Present

Myanmar Institute of Information Technology (MIIT), Mandalay, Myanmar

Relevant coursework: Data Structures & Algorithms, Software Engineering, Software Architecture, Operating Systems, Computer Networks, Database Systems, Data Analytics, Discrete Mathematics, Linear Algebra, Statistics & Probability

TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), TypeScript, Python, Kotlin
- **Frontend:** React, Next.js, Tailwind CSS, HTML, CSS, Zustand, TanstackQuery
- **Backend:** FastAPI (Python), Node.js, Express, REST APIs
- **Databases:** PostgreSQL, MySQL, MongoDB, Firebase (Firestore)
- **Mobile:** React Native, Android (Kotlin)
- **Tools & Technologies:** Git, GitHub, Linux (Bash), Figma, Docker (Basic)

CERTIFICATIONS

CS50P: Introduction to Programming with Python — Harvard University	🔗
CS50X: Introduction to Computer Science — Harvard University (In Progress)	🔗
Cybersecurity Essentials (LFC108) — The Linux Foundation	🔗
Introduction to Linux (LFS101) — The Linux Foundation (In Progress)	🔗
Front-End System Design — Frontend Masters (In Progress)	🔗
Introduction to Java and Object-Oriented Programming	🔗

SELECTED PROJECTS

MIIT Projects Management System

Tech Stack: React, React Router, TanStack Query, shadcn/ui, Laravel, PostgreSQL, AWS S3

- Developed a responsive dashboard using React and shadcn/ui with a consistent and accessible design system.
- Implemented TanStack Query for server-state management, reducing redundant API calls and ensuring real-time synchronization between the Laravel/PostgreSQL backend and the UI.
- File upload and cloud storage using AWS S3 for managing academic project documentation and media assets.

FoundIt! Lost & Found Mobile App

Tech Stack: Kotlin, Android, Firebase (Firestore, Auth), REST APIs

- Built a full-featured Android app enabling students and staff to report, search, and recover lost items with real-time Firestore listings and Firebase Authentication for secure login
- Integrated ImgBB API for image uploads and designed an intuitive UI/UX for filtering and managing items, reducing manual effort in the university's lost-and-found process
- Delivered end-to-end: requirements gathering, UI design in Figma, Kotlin development, and testing.

Exam Timetable Generator Using CSP

Tech Stack: React.js, TailwindCSS, Laravel, MySQL

- Designed and implemented a scheduling system using Constraint Satisfaction Problem (CSP) techniques to generate conflict-free exam timetables.
- Modelled constraints such as room allocation, time conflicts, and course overlaps.
- Focused on UI/UX design (Figma) and frontend development, enhancing usability and interaction of the system.

CV Builder

Tech Stack: React.js, ReactRouter, TailwindCSS, Zustand

- Developed a single-page website with real-time live preview; used Zustand for global state management to sync form inputs and rendered output simultaneously.
- Implemented browser-native print-to-PDF to generate clean, professional resume exports with no external dependencies.

Daily News Summarizer

Tech Stack: React.js, Tailwind CSS, React Router, FastAPI, Python, Hugging Face Transformers

- Developed a responsive single-page web application that delivers AI-generated summaries of daily news articles with a clean and intuitive user interface.
- Integrated a FastAPI backend to fetch, process, and serve summarized news, implemented end-to-end data flow between frontend and backend.
- Implemented dynamic routing and component-based architecture using React Router for scalable and maintainable UI structure.
- Built a complete pipeline from data ingestion and NLP processing to frontend presentation.

LANGUAGES

- **Burmese** (Native)
- **English** (Professional Working Efficiency)

ACTIVITIES

- Participated in hackathons, collaborating in teams to design and prototype practical solutions.
- Applied Agile development practices and Git-based version control across team and individual projects.
- Built and iterated on personal projects beyond coursework to explore modern technologies, frameworks, and software development practices