

Htun Aung Kyaw

Full-Stack Developer · Next.js, TypeScript, Node.js

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SUMMARY

Full-stack developer building production web apps with Next.js, TypeScript, PostgreSQL and Prisma, and REST APIs with Node.js and Express.js. Background in research and quantitative data work: Python scraping, data cleaning and visualisation. Five years teaching programming, so I write code other people can read.

EXPERIENCE

Program Associate · Institute for Strategy and Policy – Myanmar (ISP-Myanmar) 2023 – Present

- Serve as in-house developer, building interactive analysis dashboards and internal utility microsites with React, Next.js and Redux Toolkit.
- Build Python web scrapers to collect research data; clean and analyse it with pandas in Jupyter, and publish charts and maps with Flourish, Tableau and D3.js.
- Automate recurring office workflows with Google Apps Script.
- Support program initiatives: coordinate activities, develop program materials, and facilitate communication between participants.

Founder & Instructor · Learn Programming Easily 2020 – Present

- Design course materials and teach C++, Python, JavaScript and web development (HTML5, CSS3) to beginner programmers.
- Mentor students one-on-one based on individual learning needs; run an online community for peer collaboration.
- Built and maintain the school's article platform (see Projects) to publish programming tutorials.

PROJECTS

Learn Programming Easily — Article CMS articles.htunaungkyaw.online

- Single-author CMS: MDX articles and metadata stored in PostgreSQL via Prisma; edits in the admin panel go live instantly through on-demand ISR, with no rebuild.
- Auth.js credentials login with brute-force rate limiting; Shiki code highlighting, instant client-side search, RSS feed, JSON-LD SEO.

Stack: Next.js 16 · TypeScript · PostgreSQL · Prisma · Auth.js · Tailwind v4 · Vercel

SecureChat — Real-Time Encrypted Messaging github.com/HtunAungKyaw73/Secure-Chat

- Real-time messaging over Socket.IO on a custom Node.js server, with live member tracking and persistent message history.
- Messages encrypted at rest with AES-256-GCM (Node crypto); bcrypt password hashing, JWT-protected API routes and password-protected private rooms.

Stack: Next.js 16 · TypeScript · Socket.IO · PostgreSQL (Neon) · Prisma · JWT · Tailwind v4 · Framer Motion

SoulScript — Encrypted Journaling & Mood Mapping · team project

[soul-script-nu.vercel.app](#)

- Journal entries are AES-256-GCM encrypted before reaching the database; AI emotion analysis renders on an interactive mood calendar.
- Supabase Row-Level Security, server-side rate limiting, bilingual Burmese/English via Unicode detection, Vitest test suite.

Stack: Next.js · TypeScript · Supabase · PostgreSQL · TanStack Query · OpenRouter AI · Vitest

C Loop Lab — C Control-Flow Visualizer · teaching tool

[c-visualizer.htunaungkyaw.dev](#)

- Parses a subset of C in the browser and generates execution frames for for loops and if / else branches; no compiler or backend needed.
- Play, pause and step forward or backward on a timeline, with live variable values, simulated printf output, and validation for unsupported syntax, integer overflow and runaway loops.

Stack: React · TypeScript · shadcn/ui · Tailwind CSS · Vercel

The Tipping Point — Myanmar Deforestation Data Story

[myanmar-deforestation-scrolllytelling.vercel.app](#)

- Scrollytelling story on 25 years of tree cover loss, built from the Global Forest Watch country dataset, with a documented data diary of sources and decisions.
- Scroll-driven choropleth map of 14 states/regions plus trend, driver and carbon charts using a colour-blind-safe palette; light and dark themes.

Stack: D3.js · Scrollama · GeoJSON · JavaScript · HTML5 · CSS3

Utility Management System API · backend team lead

[github.com/one-project-one-month](#)

- Volunteer project: led the backend team building a REST API with Express.js MVC architecture, Prisma ORM and JWT authentication on Neon PostgreSQL.

Stack: Node.js · Express.js · Prisma · PostgreSQL (Neon) · JWT

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, C++
Frontend	React, Next.js, Tailwind CSS, Material UI, HTML5, CSS3, Redux Toolkit, RTK Query, TanStack Query, Zustand, Axios
Backend	Node.js, Express.js, REST APIs, GraphQL, Socket.IO, Prisma, JWT / Auth.js
Databases	PostgreSQL, MongoDB, MySQL, Supabase
Data	pandas, Jupyter, D3.js, Flourish, Tableau, Excel, Google Apps Script, web scraping (BeautifulSoup, Selenium, Telethon)
Tools & Deploy	Git, GitHub, Docker, Postman, Vercel, Render
Mobile	React Native
Practices	Object-oriented and functional programming, data structures & algorithms, Agile

EDUCATION

B.E. Information Technology 2015 – 2021
West Yangon Technological University, Myanmar

LANGUAGES

Burmese — Native
English — Fluent