Houy Sengleang

Software Engineer · Phnom Penh, Cambodia

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Summary

Backend-focused full stack developer in Phnom Penh. I build reliable business systems with Laravel and NestJS, and open-source tools for self-hosted search, AI and API security.

Experience

Full Stack Developer · Peng Huoth Group, Phnom Penh — Jan 2026 – Present

- Build web admin systems and REST APIs in Laravel for the group's business operations, from database design to deployment.
- Built the NestJS backend API for the Peng Huoth mobile app.
- Extend the Angular web admin with new features for managing the mobile app.

Backend Developer (R&D Officer) · Wintech Software Development, Phnom Penh — Jan 2023 – Dec 2025

- Pawn System: Architected and developed a robust Loan and Pawn Management System using Laravel as the core framework.
- API Architecture: Designed and implemented secure, scalable RESTful APIs to handle complex financial transactions, pawn collateral tracking, and interest calculation schedules.
- API Documentation: Documented the entire RESTful API enabling smoother collaboration with the frontend team and reducing integration bugs.

Selected projects

wslog · WebSocket debugging proxy
TypeScript · Node.js · React · SQLite · Docker

- Proxy between any WebSocket client and server that records every frame and streams it to a live dashboard, with no code changes.
- Masks sensitive fields before storage; published on npm as wslog-proxy and as a Docker image.

OpenVisionSearch · Self-hosted visual search API
Python · FastAPI · OpenCLIP · Qdrant · Docker · GitHub Actions

- Image, text and hybrid product search over HTTP; indexes from URLs, uploads, folders or S3.
- Measured stock CLIP framing on 300 portrait products and switched to padded framing: Recall@1 75% → 90%.

Knowledge Assistant · Document Q&A with citations
FastAPI · PostgreSQL + pgvector · React · Ollama · Tesseract OCR

- Hybrid retrieval (pgvector + full-text, fused with RRF); every answer cites its source or says "not found".
- Runs fully offline with Ollama; Khmer and English OCR for scanned PDFs.

apicheck · API security scanner
TypeScript · Node.js · OpenAPI · OWASP API Top 10

- 11 non-destructive checks across 6 OWASP API categories, discovered from an OpenAPI spec.
- Terminal, JSON and SARIF output with exit codes for CI gating.

localnet-control · Published developer CLI
Python · Networking · Security · PyPI

- LAN-first localhost sharing with QR output, token auth, IP/CIDR rules and optional tunnels.
- Released on PyPI as localnet-control with public source and documentation.

Education

Bachelor of Software Engineering · BELTEI International University — 2023 – 2025

Skills

Languages	PHP (Laravel), TypeScript (NestJS), Python (FastAPI), JavaScript; also React, Vue, Rust
Databases	MySQL, PostgreSQL, Redis, database design; Qdrant and pgvector
Tools	Git, GitHub Actions, Docker, Linux, Nginx, Postman
Concepts	REST APIs, RBAC and JWT auth, OWASP API security, RAG and LLM evaluation, LoRA fine-tuning
Spoken	Khmer (native), English (professional)