Wei Wenxuan

Software Engineer Intern | Mobile and Web Developer

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Profile

Information Technology student specializing in Web and Mobile Application development. Builds practical mobile and web apps: Flutter apps that keep working offline, PHP and JavaScript web systems, and a Python/FastAPI document Q&A service that uses retrieval-augmented generation (RAG). Seeking a software engineering internship where I can learn from an experienced team and contribute to real products.

Education

FEU Institute of Technology — Expected Graduation: August 2027
BS Information Technology - Web and Mobile Application (WMA)

Technical Skills

Programming: PHP, Java, Kotlin, Swift, C/C++, JavaScript, Dart, Python, HTML5/CSS3, SQL
Frameworks and Libraries: Flutter, Node.js, Express, FastAPI, Laravel, CodeIgniter, SvelteKit, Spring, WordPress Core
AI: Retrieval-Augmented Generation (RAG), Embeddings and Semantic Search, LLM APIs (Ollama, OpenAI-compatible)
Databases and Deployments: MySQL, PostgreSQL, SQLite, Relational Schema Design, Firebase Admin, Railway, Render, Vercel, cPanel
Platforms and Tools: AWS, GitHub Pages, Cloudflare Workers, Git, GitHub
Core Competencies: RESTful API Architecture, Cross-Platform Mobile Development, Backend Architecture, Offline-first Systems, UI/UX

Selected Projects and Engineering Work

PicKape - Coffee Quality and Traceability System

Group capstone | **Role: Mobile developer** | Flutter, Dart, SQLite, REST API, QR scanning | pickape.com | mobile demo video

- Built the Flutter app screens for login, the live dashboard, batch management, and farm-to-harvest traceability.
- Implemented the offline-first layer on the phone: a local SQLite store and a sync manager that pushes and pulls batches through the REST API when the network returns.
- Built QR batch scanning with the phone camera, linking each scan to its batch record.
- Integrated the app with the team's Express API for authentication, image upload, and role-based flows.

Knowledge Hub - Document Q&A with RAG

Personal project | Python, FastAPI, SQLite, pypdf, python-docx, Render | live demo | source

- Built a web app that indexes PDF, Word, and Markdown files and answers questions only from retrieved passages, with [S1]-style source citations and a confidence score.
- Designed a provider-agnostic AI layer (Ollama, OpenAI, any OpenAI-compatible API) that tracks which embedding model produced each vector and falls back to BM25 keyword search when the model is unavailable.
- Added a public demo mode with per-IP rate limits, upload caps, and per-visitor history; covered parsing, retrieval, and fallback paths with 23 automated tests.

Deadline Tracker - Assignment and Exam Reminder App

Personal project | Offline productivity web app (installable PWA) | web demo

- Tracks assignments and exams with courses, types, priorities, a weekly strip, and a month calendar.
- Sends a reminder before each deadline, once per item, through browser notifications via a service worker.
- Works offline and installs to a phone's home screen; data stays on the device with JSON backup and restore.
- Imports assignments from a Canvas calendar (.ics) feed.

Additional

Languages: Chinese (Native), English (Basic Communication) | **Target role:** Software Engineer Intern