

Seyha Yean

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AI / ML Engineer · Software Engineer

Software engineer with four years of production web and mobile experience, most recently a research intern at UCLouvain in Belgium working on LLM-based job skill extraction and curriculum enhancement. I work on both sides of an AI product: the model and the software it ships inside. Currently completing an MSc in Computer Science, expected September 2026.

AI / ML RESEARCH & ENGINEERING

Research Intern, AI / Computer Science — Université catholique de Louvain

Apr — Jun 2026

Louvain-la-Neuve, Belgium · on-site · 3-month international research internship

- Built an end-to-end LLM/NLP pipeline extracting technical skills from job postings and aligning them with university curriculum content.
- Processed 6,607 web pages into 254 technology job postings using Llama 3.1 8B, Qwen3-14B, BGE embeddings and cross-encoder reranking, against 590 curriculum skill phrases from 25 courses.
- Achieved 78.0% semantic F1 and 97.2% Precision@5 on SkillSpan; validated matching with 250 blinded skill-course pairs rated by 10 annotators.

Trash Image Classification

Fine-tuned a deep learning image classification model for automated waste classification, including training, validation and model performance evaluation.

Python · Deep Learning · CNN · Computer Vision · yeanseya.com/work/trash-image-classification

PC Arena Shopping Assistant

RAG shopping assistant with tool calling and a 200-case retrieval evaluation harness that diagnoses retrieval, query-formulation and ranking failures.

RAG · Agent · Tool Calling · Retrieval Eval · Next.js · Postgres · yeanseya.com/work/pc-arena

PRODUCTION SOFTWARE ENGINEERING

Senior Mobile Developer — CheckinMe

Nov 2023 — Oct 2025

- Led React Native development of the CheckinMe mobile app across iOS and Android.
- Built and shipped key features including CreditMe, offline attendance and an audio-based learning-book experience.
- Owned production releases to the Apple App Store and Google Play, from build preparation through release updates.

Frontend Developer — Pathmazing Inc

Nov 2022 — Nov 2023

- Built the interfaces for three products — TMS, GMS and Bquest — in React.js with Material-UI and Tailwind CSS.
- Worked across the stack into Node.js services behind those interfaces.

Web Developer — SALATECH PTE. LTD

Nov 2021 — Nov 2022

- Delivered three Nuxt.js / Vue.js modules — article, career guide and event — integrated into the admin interface for content management.

TECHNICAL SKILLS

AI / ML — LLMs, RAG, tool calling, Deep Learning, CNNs, Computer Vision, BGE embeddings, cross-encoder reranking, semantic matching, retrieval evaluation

Languages — Python, JavaScript, TypeScript, SQL

Engineering — React Native, React.js, Next.js, Vue.js / Nuxt.js, Node.js, Postgres, REST APIs

Tools — Git, GitHub, Linux

Spoken — Khmer (native), English (professional working proficiency), French (basic)

EDUCATION

MSc Computer Science

Institute of Technology of Cambodia · 2025 — Sep 2026 (expected)

Engineer's Degree, Software Engineering

Institute of Technology of Cambodia · 2017 — 2022