Kansinee Khuttiya

Seeking Software Engineering Internship · Available immediately

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EDUCATION

Assumption University (ABAC) | B.Eng. Computer Engineering *Expected Graduation, October 2027*

Focus: AI engineering & cybersecurity. Relevant coursework: Data Mining, Machine Learning, Computer Networks, Operating Systems, Parallel & Distributed Computing.

PROJECTS

NYXUS — Security-First RAG Chatbot

Full-stack · solo project

github.com/evieffvy/NYXUS · nyxus-phi.vercel.app

- Architected full-stack **RAG application** (Next.js 16 + FastAPI + Postgres): PDF/text ingestion, fixed-size overlap chunking, **Jina Embeddings v3** indexing, cosine top-k retrieval with context injection and citations
- Engineered **streaming SSE chat UI** with Groq Llama 3.3 70B; multi-conversation persistence in Postgres via Prisma; structured-output prompts for OWASP Top 10 code analysis returning severity-rated JSON findings
- Designed **weighted prompt-injection scorer** (7 signal classes) with score-based blocking before LLM dispatch; PII redaction across 10+ pattern classes (Luhn-validated cards, API keys, JWTs)
- Implemented retry/backoff for transient LLM errors, slowapi rate limiting, hardened security headers; GitHub Actions CI
- Tech: Next.js 16, React 19, TypeScript, Tailwind 4, NextAuth v5, FastAPI, Pydantic, slowapi, Prisma, Postgres (Supabase), Groq Llama 3.3 70B, Jina Embeddings v3

HORUS — AI-Powered Threat Intelligence Dashboard

Full-stack · solo project

github.com/evieffvy/HORUS · horus-vulnscope.vercel.app

- Integrated **Groq Llama 3.3 70B** for structured Thai-language CVE summarization (affected systems, attacker capabilities, remediation urgency) and streaming bilingual chat with active-CVE context injection
- Live ingestion from **NVD REST API v2.0** with CVSS v3.1/v3.0/v2 score normalization; filterable analyst UI; jsPDF export of filtered CVE reports for offline triage
- Tech: Next.js 14, TypeScript, Tailwind, Groq SDK, Recharts, jsPDF, NVD API

SYCL Parallel Computing — NIST SP 800-22 Frequency Tests

Systems · C++17 · Intel oneAPI

github.com/evieffvy/sycl_project · evieffvy.github.io/sycl_project

- Reimplemented **NIST SP 800-22** Monobit and Block Frequency tests as SYCL parallel kernels; up to **2,194× GPU speedup** (Block Frequency) and **1,288×** (Monobit) over the NIST STS 2.1.2 serial reference at 100 M bits, with **160.5 Gbit/s** peak sustained throughput on NVIDIA RTX 4080 SUPER
- Single portable codebase (SYCL/DPC++) targeting Intel CPU, Intel GPU, NVIDIA GPU, and AMD GPU; P-values match NIST STS 2.1.2 to at least six decimal places across every tested configuration
- Tech: C++17, SYCL/DPC++, Intel oneAPI, CMake, Linux

ML Coursework · Personal Portfolio

Python · scikit-learn · OpenCV

- **ML coursework** — CNN transfer learning (Stanford Dogs, 120 classes) · PCA eigenface recognition (NumPy/OpenCV) · IMDB sentiment (LR / Naive Bayes / TF-IDF) · Apriori market basket · Iris K-Means · Titanic ID3 — github.com/evieffvy
- **Portfolio** (evieffvy.vercel.app) — Next.js + Tailwind + Framer Motion

TECHNICAL SKILLS

- **Languages:** Python, C, C++, TypeScript, JavaScript, SQL, Bash, HTML, CSS
- **Web & Backend:** Next.js 15, React 19, Tailwind CSS, FastAPI, Pydantic, NextAuth, Prisma, REST, SSE streaming, Recharts, jsPDF
- **AI / ML:** RAG, embeddings, LLM integration (Groq Llama 3.3 70B), streaming AI chat, scikit-learn, OpenCV, CNN transfer learning, PCA, K-Means, NLP / TF-IDF
- **Security:** OWASP Top 10, prompt-injection defense, PII redaction, CVE / NVD analysis, audit logging, security headers (CSP, HSTS), rate limiting, JWT / OAuth
- **Data & Infra:** Postgres, Supabase, Linux, Git, GitHub Actions, CMake, SYCL / oneAPI, Vercel, Render

LANGUAGES

Thai (Native) · **English** (Fluent) · **Mandarin** (Learning, HSK 3)