Harvey

SENIOR FULL-STACK SOFTWARE ENGINEER

Hong Kong · (852) 5401-9915 · harveyworkhk@gmail.com · github.com/harvey619

PROFILE

Building production systems, not prototypes. 6+ years shipping web and mobile products across FinTech, SaaS and EdTech, now focused on LLM applications, agent tooling and computer vision.

- Lead end-to-end development lifecycle, integrating cross-platform mobile systems with many different stacks
- Strong background in system automation, cloud deployment (AWS), and high-availability production systems.

Portfolio: harveys.vercel.app
github.com/harvey619
linkedin.com/in/harveyss
Trained Professionals Portfolio: harvey-preface.vercel.app

FLAGSHIP PROJECTS

FinSight HK | AI Business Financial Evaluator

Describe a business and a Hong Kong district, get an auditable financial model: startup costs, 3-year P&L, break-even and sensitivity. Every figure traces to a visible, editable assumption. Live web search for unit pricing with AI fallback.

- Tech: React · Vite · TypeScript · Tailwind · LLM integration

The Asset | Event, Podcast, Articles, Videos, Voting Platform

Interactive voting system used in financial industry surveys and awards programmes, serving 5,000+ participants.

- Web Tech: Next.js · TypeScript / App Tech: SwiftUI · Jetpack Compose
- Backend: Firebase · MySQL · Laravel · Plesk

ANSR Accountants | Client Management Portal

Canadian Tax Portal featuring AES-256 encrypted data handling, dynamic questionnaire, invoice, document generation, real-time messaging and payment

- Tech: Next.js · React · PostgreSQL · Prisma · Supabase · NextAuth · Zod · Stripe

TechShop – E-commerce Web Application

Full-stack MERN e-commerce platform with product management, authentication, and online payments.

- Tech: MongoDB, Express.js, React, Node.js, Redux Toolkit, PayPal API

Geowitness | Social Media App

Cross-platform short-form video app applying a TikTok/Instagram interaction model to news content. Live on the App Store since 2022

- Tech: Flutter · Dart · Symfony (PHP) · GraphQL · Docker

DesireAI gift intelligence

A commercial product on its own domain with three paid tiers. I lead the architecture and reviews, and the founder ships the features.

- Multi-stage pipeline: adaptive questionnaire, discovery through Exa and Serper, Azure OpenAI scoring, then ranking and de-duplication with explainable match notes.
- A signed-in hub with recipient profiles, Discover, Gift Battle comparisons, DIY ideas chat and analytics, gated by Stripe subscriptions through webhooks.
- Vercel cron jobs that populate and de-duplicate the product index, and Sentry plus Upstash rate limiting in front of the AI routes.

Preface Student Project Showcase

Public platform cataloguing 114 shipped student projects, filterable by discipline, technology and student.

- Project Span: Unity, Python, Javascript, SQL, LLM Models , Machine Learning, SwiftUI

FlexDesk: Hot-Desking & Workplace Booking App

Mobile and Web modern hybrid offices to book desks, meeting rooms, and view daily office capacity in real time.

- Tech Stack: Power Apps (Canvas) · Power Automate · Microsoft Dataverse · Power BI · Microsoft Teams

CORE EXPERTISE

AI & ML: LLM applications, agent tooling, prompt and system-prompt engineering, retrieval and context design, on-device inference (Llama), computer vision (TensorFlow, Keras, OpenCV), predictive modelling (scikit-learn), Hugging Face deployment
Automation: RPA workflows, n8n agents, Selenium and Python scraping, automated email and SMS, data migration
Languages: JavaScript (ES6+), TypeScript, Python, PHP, Java, Dart, Kotlin
Frontend: React, Next.js, Vue, Vite, three.js, Tailwind
Backend: Node.js, Express, Laravel, Symfony, Django, REST, GraphQL
Mobile: Flutter, SwiftUI, Jetpack Compose, React Native, App/Play Store
Data: MySQL, PostgreSQL, MongoDB, Supabase, Firebase
Cloud: AWS (EC2, S3, EBS), Docker, Nginx, PM2, Vercel, CI/CD
Tools: Git, GitHub, Jira, Postman, Swagger, Figma, Adobe

Languages Native English and Cantonese
Hindi/Urdu/Punjabi

EXPERIENCE

AI & SOFTWARE ENGINEERING INSTRUCTOR

Preface Nomad | Jul 2020 - Present

- Trained 380+ professionals and students in applied AI and software engineering, from LLM tooling and machine learning to full-stack and mobile delivery.
- Took 114 projects from concept to live deployment across AI/ML, web, games, mobile, generative media and data science.
- Supervised advanced work including on-device Llama inference, a CNN trained from scratch for live gesture recognition, and churn prediction.
- Design STEM curricula and technical courses, and train teachers in programming and technology education.

LEAD FULL-STACK DEVELOPER & PROJECT LEAD

The Asset | Jun 2022 - Jun 2025

- Led end-to-end delivery of mobile and web platforms across SwiftUI, Jetpack Compose and Laravel, owning architecture across cross-functional teams.
- Built a global voting platform transforming traditional financial surveys into an interactive system used by 5,000+ industry participants across Asian Local Currency Bonds, G3 Bonds, FX, and Sustainable Capital Markets
- Managed development and operations of The Asset's website, event registration systems, survey platforms, and voting web applications.
- Developed personalised content algorithms enabling users to receive articles, podcasts, and videos based on their professional interests (Asset Servicing, Asset Management, Sustainable Finance)
- Owned the technology behind the Triple A awards series, Asset Benchmark Research rankings and the Finance Research Awards: QR registration, automated communications, badge printing, live polling, Q&A and gamification.
- Replaced recurring manual editorial and operational processes with RPA workflows.
- Architected and optimised the MySQL schemas and queries behind the voting and content platforms, tuned for concentrated load during live voting windows.
- Managed theasset.com plus its iOS and Android apps, published on both stores.
- Originated the app and led a team of four
- The newsletter running daily to 100,000+ subscribers
- NextJS, Typescript, Laravel · Livewire · MySQL · AWS · SwiftUI · Jetpack Compose · Plesk PHPList, App Store & Play Store deployment.

TheCodingMachine | Sep 2021 - Mar 2022

- Full Stack Development of Mobile and Website Applications included geowitness, a social media app published on both iOS and Android store, and a web3 blockchain project on betting
- Flutter and Symfony PHP, graphQL,API
- Vuejs with Symfony PHP/NodeJS , graphQL

MerkleTree Foundation | Jun 2021 - Nov 2021

- Develop an Education Website using Reactjs/ Nodejs
- Responsible for the entire website's design, curriculum, marketing planning, and information and project management in a team of 2
- Creating a virtual control system using Github sourcetree for code management and insomnia to test Express Server API calls
- AWS Services
  - S3 for resource management and Fast Content Serving,
  - EC2 as a cloud server to host Postgres and React App, with PM2 for process management and Nginx as load balancer, Elastic Block Store,

RECOGNITION & PUBLICATIONS

- Winner of IFTA Outstanding Financial Technologist of the Year
- Champion of Hackathon Arena at Dev Con 2026, undefeated against fellow engineers
- Profiled in the South China Morning Post; interviewed in the Hong Kong Economic Times
- hk-markets-mcp, Model Context Protocol server I made so any AI assistant can reach live Hong Kong monetary data.
  - 3 tools, each with a typed input and output schema, over the Hong Kong Monetary Authority's public API. The client caches, collapses concurrent calls into one and rate-limits itself
  - Open source under MIT, 22 tests, published to npm and installable with npx

EDUCATION

UNIVERSITY OF HONG KONG

Bachelor of Science in Information Management
September 19- JUNE 21 || Faculty of Education

- Data Management & Database Systems
- Information Policy, Ethics & Digital Governance
- Sociology of Information Systems
- Web Development & Data Optimisation

HONG KONG BAPTIST UNIVERSITY CIE

Associate Degree in Mobile Information Technology
SEPTEMBER 17-JUNE 19

App Development · Android Studio (Java) · Web Development (React)