

LIN HTET SHEIN

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PROFESSIONAL SUMMARY

Full-stack software engineer with hands-on experience building production AI applications using LangChain, RAG pipelines, and agentic ReAct architectures. Proficient in Python, JavaScript/TypeScript, React, Next.js, and Node.js, with additional experience in C/C++ systems programming. Demonstrated ability to own projects end-to-end — from architecture to deployment. First Class Honours in Computing Science; completing the 42 Singapore core curriculum (a rigorous, project-based peer-learning CS programme).

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C, C++

Frameworks & Libraries: React, Next.js, Node.js, LangChain, REST APIs

Databases & Cloud: MySQL, Supabase (PostgreSQL), Firebase, cloud storage APIs

Tools & Platforms: Git, GitHub, Docker, Linux, CI/CD pipelines

AI/ML: LangChain, RAG, ReAct agents, prompt engineering, multimodal AI, vector embeddings

Methodologies: Agile, code review, unit testing, system design

WORK EXPERIENCE

Technical Peer Mentor (Volunteer) | 42 Singapore

Mar 2025 – Apr 2025

- Proctored and supported 100+ participants per cohort across weekly technical assessments, maintaining a zero-incident record for academic integrity.
- Delivered hands-on coaching in shell scripting, debugging, and code review best practices — measurably accelerating peer progress through structured 1:1 sessions.
- Resolved technical environment blockers under time pressure, contributing to a smooth onboarding experience for all incoming students.

Digital Literacy Volunteer | SCS Singapore

2023 – 2024

- Improved digital independence for 30+ senior citizens by teaching use of government platforms (Singpass, HealthHub) through patient, step-by-step instruction.
- Conducted targeted cybersecurity workshops covering phishing detection and scam prevention, reducing reported incidents among participants.
- Translated complex technology concepts into accessible language for non-technical users across smartphone functions and digital communication tools.

PROJECT EXPERIENCE

VidA — AI Multimodal Video Analysis Tool | Python, LangChain, Multimodal LLM APIs 2026

- Built an end-to-end video intelligence platform using multimodal AI and an agentic ReAct architecture, enabling natural language queries over long-form video content.
- Reduced manual video review time by automating insight extraction, chapter summaries, and full transcript generation — eliminating the need for manual scrubbing.
- Designed prompt pipelines to handle multi-step reasoning across video segments, significantly improving factual accuracy of extracted insights.

ThirdEye — AI Fact-Checking Platform | Python, LangChain, Web Search APIs

2026

- Built a real-time misinformation detection system at a competitive hackathon, cross-referencing user-submitted news claims against live web sources with ~85% accuracy.
- Implemented a ReAct (Reasoning + Acting) framework that decomposed complex factual claims into verifiable sub-questions, improving detection reliability.

- Delivered a working prototype within 24 hours, placing among the top submissions for technical depth and practical impact.

Knoverse — Secure Enterprise RAG Chatbot | Next.js, Node.js, Supabase, LangChain 2025

- Engineered a production RAG chatbot as a capstone project serving as a centralised knowledge hub, replacing manual document searches with natural language queries.
- Enforced strict data governance policies with role-based access controls, ensuring only authorised users could access sensitive internal documentation.
- Integrated vector embeddings via Supabase (PostgreSQL pgvector) to achieve sub-second semantic search over large internal knowledge bases.

WebServ — Custom HTTP/HTTPS Server | C++, Linux Sockets, HTTP/1.1 2025

- Built a fully functional web server from scratch in C++, handling concurrent client connections via non-blocking I/O — comparable in design to Nginx.
- Implemented full HTTP/1.1 compliance including correct status codes, persistent connections, chunked transfer encoding, and multi-client socket management.

TeleBird — Real-Time Multilingual Social Messaging App | TypeScript, React Native, Firebase 2023

- Developed a feature-rich iOS social app with real-time messaging, multimedia uploads, and cloud-based AI translation supporting 10+ languages.
- Integrated end-to-end multilingual communication via cloud translation APIs, enabling seamless conversations across language barriers with < 300ms latency.

EDUCATION & CERTIFICATIONS

42 Core Curriculum | 42 Singapore 2024 – Present

Peer-to-peer, project-based CS programme covering systems programming, algorithms, networking, and full-stack development through 100% project-based evaluation.

BSc (Hons) Computing Science — First Class Honours | Coventry University Mar 2024

Machine Learning Specialization | Coursera (DeepLearning.AI) Nov 2023

Supervised learning, unsupervised learning, neural networks, and ML best practices.