

Khanh Duong Ho, Software Engineer

Ho Chi Minh, Vietnam · +84 868014998 · khanhduong6b@gmail.com

LinkedIn · GitHub · My Portfolio

DATE OF BIRTH	01/07/2002
LANGUAGES	English – Good working knowledge

PROFILE

Software Engineer with proven experience building large-scale financial platforms using **AngularJS**, Node.js/Express, and RESTful APIs. Primary author of **Finsupport** — Thanh Cong Securities' internal operations platform comprising **100+ AngularJS modules** across 10+ departments (HRM, CFO, RMD, DA, AMD, OPE, BPD, TRD, ITD, TCAM), integrating Oracle, MongoDB, and Redis data pipelines. Also delivered the **TCAM Wealth Management Platform** and **AGM application** serving thousands of users — both built with Angular/AngularJS. Deep expertise in component architecture, AngularJS services/directives, DOM manipulation, cross-browser compatibility, and multi-module SPA design. Holds **AWS Certified Solutions Architect – Associate (SAA-C03)**. Passionate about high-performance systems and automating financial workflows.

CERTIFICATIONS

AWS Certified Solutions Architect – Associate (SAA-C03)	May 2026
----------------------------------------------------------------	----------

Amazon Web Services · [credly.com/badges/1e9105b2-b474-4921-bf93-23bad6bdc95](https://www.credly.com/badges/1e9105b2-b474-4921-bf93-23bad6bdc95)

EMPLOYMENT HISTORY

Software Engineer, Thanh Cong Securities	Ho Chi Minh
-------------------------------------------------	-------------

Mar 2024 — Present

- Architected and built **Finsupport**, TCSC's enterprise internal platform — a single-page AngularJS application with 100+ modules serving 10+ departments (HRM, CFO, RMD, DA, AMD, OPE, BPD, TRD, ITD, TCAM); backend powered by Node.js/Express with Oracle, MongoDB, and Redis.
- Designed the multi-mode approval workflow engine (ONE / ALL / SEQ / CUSTOM) with dynamic form rendering, Telegram webhook integration, and file management — used company-wide for all internal business proposal flows.
- Built cross-department financial reporting modules: NAV analytics, margin/liquidity risk reports, business results (TCAM/TCIF/TCGF/TCSC), portfolio allocation, Pro.trade daily reports, and export-ready Excel/PDF outputs.
- Delivered the Annual General Meeting (AGM) application — built with **AngularJS** — serving thousands of concurrent users; automated 60–70% of cross-department workflows.
- Designed and implemented the complete **TCAM Wealth Management Platform** with Angular, covering fund dashboards, NAV analytics, portfolio tracking, fee management, and regulatory reporting modules.
- Built RESTful API services integrated with Angular frontend layers for real-time financial data delivery; implemented background scheduler jobs for automated daily/monthly reports.
- Developed the Fastest Price Board (KRX) — Vietnam's fastest stock market display — with optimized HTML/CSS/JS, UDP-to-WebSocket pipeline, and sub-millisecond rendering.
- Integrated AI deep research tools and blockchain capabilities into company digital systems.

Software Engineer, An Phu Viet — eParking	Ho Chi Minh
--------------------------------------------------	-------------

Dec 2024 — Present

- Built and maintained eParking's enterprise internal platform using **AngularJS** as the primary frontend framework — architecting reusable components, directives, services, and two-way data-binding patterns across the HRM, Pricing, Request, and Project modules.
- Designed modular AngularJS service layers to interface with Node.js/Express RESTful APIs, MongoDB, and Redis, ensuring clean separation of concerns and maintainable codebase.
- Delivered end-to-end KPI management features including department-based assignment and bulk employee auto-selection; implemented Salary and Annual Leave functionalities with payroll and tax calculation logic.
- Enhanced the Pricing/Quotation module with VAT and promotion scenarios, updated Excel quotation templates, and improved buy/order business logic.

- Integrated Telegram event listeners and automated notifications; drove frequent production hotfix releases, resolving business-critical issues quickly.

Blockchain Researcher, Tesse Official

Ho Chi Minh

Nov 2022 — Feb 2024

- Researched emerging technologies and authored technical reports; developed DeFi/GameFi dApps.
- Audited smart contracts for outsourced projects; authored requirements specs, user manuals, and technical docs.

EDUCATION

Bachelor's Degree, Saigon Technology University

Ho Chi Minh

Oct 2020 — Nov 2024

- GPA: 3.49/4.0 - Full scholarship recipient.
- Strong foundations in problem-solving, algorithms, data structures, and databases.

SKILLS

AngularJS / Angular	JavaScript / TypeScript
Node.js / Express	RESTful API Design
HTML5 / CSS3 (cross-browser)	Database (Oracle, MongoDB, Redis)
Data Structures and Algorithms	AWS (SAA-C03)
Solidity / Web3.js / Ethers.js	Hardhat, Foundry

PROJECTS

Finsupport — TCSC Internal Operations Platform, Thanh Cong Securities

Mar 2024 — Present

Tech: **AngularJS** (SPA frontend), Node.js/Express, Oracle DB, MongoDB, Redis, GitHub Actions CI/CD

- **Scale:** 100+ AngularJS modules across 10 departments — HRM, CFO, RMD, DA, AMD, OPE, BPD, TRD, ITD, TCAM.
- **HRM module:** KPI setup and review, payroll & commission calculation, employee/department management, multi-step approval workflows.
- **CFO module:** Business result reports across TCAM/TCIF/TCGF/TCSC entities, NAV management, derivatives, DLPP, consolidated financial reporting.
- **RMD module:** Liquidity risk reports, margin notifications, portfolio change tracking, stock rights management, pool calculations.
- **DA module:** Investment research management, AI-powered deep research, stock classification, trade simulator, allocation index.
- **AMD/OPE/BPD:** Sales tools (buying power guarantee, commission tracking, customer lookup), operations reports, customer ranking.
- **TCAM sub-platform:** Wealth management front-end for fund dashboard, portfolio, fees, reporting, and data reconciliation.
- **Base Request workflow:** Dynamic multi-mode approval engine (ONE/ALL/SEQ/CUSTOM) with Telegram webhook, file management, and audit trail.
- **Infrastructure:** Background scheduler jobs for EOD/monthly reports, CI/CD deploy gates, multi-database integration (Oracle, MongoDB, Redis).

TCAM — Investment Fund & Wealth Management Platform, Thanh Cong Securities

Jul 2025 — Present

- **Customer & Portfolio Management:** CRUD, contract tracking, individual portfolios, group-level rollup views.
- **Fund Dashboard & NAV Analytics:** Real-time metrics — NAV, HWM, TWR, cash position, fee accruals.
- **Fee Management:** Management, performance, and presumed fee calculation, scheduling, and tracking.
- **Reporting & Scenario Modeling:** Print-ready performance reports, PDF/Excel export, multi-parameter simulations.
- **Data Reconciliation & Administration:** NAV/FIN data validation, user permissions, system settings.

Price Board KRX — Vietnam's Fastest Stock Market Board, Thanh Cong Securities

Jan 2025 — Present

Optimized every layer from pure HTML/CSS/JS to low-level reflow/repaint reduction and efficient file loading. Backend: UDP messages forwarded directly to client WebSockets with an ultra-fast custom data parser. Outperforms SSI, VNDirect, and Rong Viet Securities by several hundred milliseconds.

Phien Brand Website

Ha Noi

May 2025 — Jun 2025

End-to-end UI/UX across 5 pages, responsive desktop/mobile, bilingual Vietnamese/English. Admin UI with bulk actions and data import workflows. Link: <https://phien.vn/>

Centralized Exchange, Tesse Official

Feb 2023 — May 2023

Tech: MERN, Laravel, Flutter. Led backend development; built Futures Trading server-side logic; deployed to production.

HONORS & AWARDS

Safe Bank, BUIDL Vietnam 2023

Jun 2023

- Overall Grand Prize
- Gnosis: Gold
- Mina Protocol: 2nd Prize
- Link: <https://devfolio.co/projects/banking-protocol-d4ab>