

# NAPHAJ JAENGJAIKUL

Full-Stack Developer, Software engineer, Mobile App Developer

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## EDUCATION

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The University of Hong Kong (2022 - 2026)

**BASc in Financial Technology (under Computer Science Department) with a minor in Computer Science**

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## PROFESSIONAL EXPERIENCE

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### 0159 Group | Full-Stack Developer (Nov 2025 - Feb 2026)

- Architected and developed **Circle Ticket**, a next-gen ticketing platform. Built with: **Next.js/TypeScript; Node/Express API; MongoDB/Mongoose; Stripe; S3; Redis** cache/session layer; **Docker** Compose for local parity.
- Oversell-safe ticketing system: MongoDB transactions with retries, Stripe webhooks to finalize payments, and instant QR code ticket generation.
- **Redis TTL leases** + heartbeat keys; lease worker + reservation cleaner to auto-release expired holds
- Auth with JWT + guest tokens; organizer/fan/admin guards; per-organizer scan rate limiting; 50/50 deposit flow with reminder/retry "SecondCharge" scheduler.
- Organizer scanning UI (QR, atomic mark-used/mark-paid-at-door) and payout scheduler (post-event/weekly via Stripe Connect) for timely settlements.

### Standard Chartered Bank HK | Software Engineer Intern (June 2025 - Aug 2025)

- Worked on the **world's first ever HKD stablecoin** using **Ethers.js** and **Hardhat**.
- Made an automated testing scripts in **Solidity** and **TypeScript** for unit and integration tests.
- Worked with **Ethers.js** on the backend and **NextJs** on the frontend
- Integrated AI into the software QA pipeline to improve testing efficiency.
- Leveraged the JIRA API to automatically create and log tickets for bugs identified during testing cycles.

### OUT Company LTD | Full-stack Developer (May 2025 - Sep 2025)

- Founded the startup, single-handedly design + built the mobile app, and the backend development.
- Architected and built the mobile app using **TypeScript, React Native, Node.js, Express, and Supabase**.
- Integrated **20+ RESTful API endpoints** and managed application state globally using **Zustand**.
- Enhanced performance and security by implementing **RN MMKV** for caching and **Keychain** for secure storage.
- Engineered real-time features using **Supabase real-time subscriptions** (Table listener) and Push notification using **Expo Notifications**
- Integrated **Azure cloud face recognition** and **Azure Cosmo DB** to verify user face matching their profile pictures and securely store their face geography in vector database (anti-catfishing)
- Achieved **Top 8** in Social Networking on the App Store and gained **1,000+ downloads** in the first month.

### ALGOGENE FINANCIAL TECHNOLOGY COMPANY LTD | Software Engineer Intern (June 2024 - Aug 2024)

- Developed and deployed **real-time trading signal bots** for equities, cryptocurrency, and commodities.
- Developed a fully automated AI-powered social media post system using BeautifulSoup, Selenium, ChatGPT API, and various social media APIs
- Conducted data analysis and visualization of various financial instruments using **Python, Pillow, Mplfinance, Pandas, Plotly, numpy, and Pandas TA**
- Managed database operations using **SQLite3**
- Used **AWS S3** for cloud storage

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## PERSONAL PROJECTS & COURSE WORK

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**FinancialGPT: Personal AI finance tutor** (Final Year Project)

→ RAG (**Retrieval-Augmented Generation**), Nvidia Embedding model, Deepseek LLM, NextJS

**CircleTicket: a next-gen ticketing platform** (Professional Production Project)

→ TechStack: NextJs, MongoDB, NodeJS, ExpressJS, Docker, Typescript, AWS S3

**OUT! - In-real-life Hangout App** (Available on AppStore, Reached Top 8 app under Social Networking)

→ Tech Stack: React Native, Supabase storage/database/Auth, NodeJs, ExpressJs

**ReTeadHKU** - Android Native Second hand item trading app for HKU students (Course Work)

→ Android Studio, Java (Android), XML, firebase, Postgresql

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## SKILLS

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- **Front-End:** HTML, CSS, Javascript, React, NextJs, Tailwind, Bootstrap
- **Back-End:** Javascript, NodeJS, expressJs, FastAPI (Python), Docker, Django, Flask, Microservices, serverless, AWS, Azure, GCP
- **Programming:** Python, Javascript, Typescript, HTML, CSS, C++, C, C#, Java, Kotlin, Shell Script
- **Mobile App Development:** React Native, Expo, Android Studio, Kotlin, Java (Android)
- **Database:** PostgreSQL, MongoDB, Redis, Supabase, Firebase,
- **Languages:** English, Thai