

# NAPHAJ JAENGJAIKUL

Software Engineer, Full-Stack Developer, Front-End Developer

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## EDUCATION

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The University of Hong Kong (2022 - 2026)

**BASc in Financial Technology with a minor in Computer Science**

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## PROFESSIONAL EXPERIENCE

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HKU, Department of Industrial and Manufacturing Systems Engineering

**Software Developer Intern**

(Aug 2024 - Sep 2024)

- Use Tensorflow to build CNN to do a real-life pattern recognition project
- Assisted in developing a Digital Twin computer vision project using C# and Unity
- Built a VR/XR project with C++ and Unreal Engine 5 BP
- Developed a project website (<https://visioneers.hku.hk/>)

ALGOGENE FINANCIAL TECHNOLOGY COMPANY LIMITED

**Software Developer Intern**

(June 2024 - Aug 2024)

- Developed real-time trading signal bots (Equity, Crypto, Commodity)
- Developed a fully automated AI-powered social media post system using BS4, selenium web driver, ChatGPT API, social media APIs
- Conducted data analysis of various financial instruments using Python, Pillow, Mplfinance, Pandas, Plotly, numpy, and Pandas TA
- Managed database operations
- Worked with AWS S3 and cloud servers for scalable storage and application deployment

AZAI SOLUTION ([www.azaisolution.com](http://www.azaisolution.com))

**Co-Founder, Product Owner**

(Sep 2023 - May 2024)

- My previous startup under Cyberport Creative Micro Fund Scheme (Received HK\$100,000 Funding)
- Developed a company website ([www.azaisolution.com](http://www.azaisolution.com))
- Oversaw product development (Mobile App)
- Oversaw marketing strategy and social media

## KEY ACHIEVEMENTS

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### Certificates

- Finalist & Merit rewards / HK TECHATHON+ 2024 (Trusted AI & data science)
- Winning team / Cyberport University Partnership Programme FinTech Entrepreneurship Boot Camp 2023
- Completion of OpenCV Bootcamp by OpenCV University
- Completion of Tensorflow-Keras Bootcamp by OpenCV University
- Blockchain for Business: The New Industrial Revolution by Udemy
- Blockchain A-Z: Learn How To Build Your First Blockchain by Udemy

## SKILLS

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- **Front-End:** HTML, CSS, React, Tailwind, Bootstrap
- **Back-End:** Javascript, Typescript, NodeJS, PHP, Docker, Flask
- **Programming:** Python, Javascript, HTML, CSS, C++, C, C#, Java, Kotlin, Shell Script
- **Database:** MySQL, MongoDB, AppWrite
- **Mobile App Development:** React Native, Expo, Nativewind, Android Studio
- **Computer Science Skills:** Web Application, Mobile App, Machine Learning, Deep Learning, Data Analysis, Database, Web Scraping, Cyber Security, Scrum Methodology, SDLC
- **Languages:** English, Thai

## PROJECTS & COURSE WORK

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### **www.naphak.com - Personal Website**

A Personal website to showcase my projects and experience

- Hardcoded using HTML, Javascript, CSS

StoryMap: location-based social media app (React Native)

- Used MapBox for map API and customization
- Used React Native (typescript) with expo and nativewind
- Used Appwrite for real-time data base

### **CNN-based Spell Recognition Wand (Physical) - Harry Potter Spell Casting game**

Users can use a physical wand for pattern-based spell-casting in real life. The embedded CNN model on the wand recognizes patterns to determine the corresponding spell and output the action in the game

- Used Tensorflow to train the spell recognition model
- Self-collect data on the wand's coordinate locations and movements over time for training
- 3D printing for hardware model

### **Restate: Real Estate App (React Native)**

An app to list or find real estate, rooms and other renting property

- Used React Native (expo) and Nativewind (tailwind CSS)
- Used AppWrite for real-time database and user authentication
- Integrated with Google Authentication API