Lucian LI, Yanpei

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EDUCATION

MSc in Artificial Intelligence for Science
Sep 2026 – Present

The Chinese University of Hong Kong, Hong Kong

Bachelor of Science with Honours in Computer Engineering
Sep 2024 – Jun 2026

Hong Kong Metropolitan University, Hong Kong

WORK / INTERNSHIP EXPERIENCE

CTO & Co-Founder
Nov 2024 – Mar 2026 | Hong Kong

WeGreen AI

Led a startup to drive innovation in waste management with AI-powered solutions, making recycling processes smarter, faster, and more efficient for a sustainable future.

- Developed AI-powered smart bin technology to optimize waste sorting and recycling efficiency.
- Secured HK$30,000 funding from HKBU and HKSTP for product development and growth.
- Led product innovation and fostered a collaborative, high-performance team culture.
- Won YDC Best Potential Startup and Innovation Award, recognized among top tertiary teams in Hong Kong.

Skills: Product Development · AI · Machine Learning · Waste Classification · IoT · Team Leadership

Engineering Intern
Oct 2025 | Germany

Honsenn Eco Technology GmbH

Completed an on-site internship supporting product R&D and test/QA activities, collaborating effectively within a cross-cultural engineering team.

- Participated in on-site learning and hands-on engineering practice.
- Supported product R&D and assembly activities.
- Conducted headphone ANC and Bluetooth testing and debugging; leveraged an existing Python-based automated testing script to improve QA repeatability and efficiency.
- Assisted with outbound and shipping procedures and related documentation to improve test consistency and traceability.

Skills: Python · Test Automation · Quality Assurance · Bluetooth Testing · ANC Testing · Debugging · Documentation · Product R&D Support · Assembly · Shipping Procedures · Cross-cultural Collaboration

Tech Researcher
Jul 2024 – Sep 2024 | Dongguan

Dongguan Honsenn Electronic Technology Co., Ltd.

Contributed to the development of microcontroller functionalities and provided robust support for product development initiatives.

Skills: Product Development · Microcontrollers · Technical Product Development

Web Development Intern
Aug 2023 – Sep 2024 | Hong Kong

GoSmart Everywhere Limited

Collaborated closely with senior engineers to contribute to key projects, enhancing advanced software engineering skills in a production environment.

- Strengthened proficiency in TypeScript, React.js, and Python through hands-on development and iterative feature implementation.
- Gained practical experience in full-stack web development and scalable web application design, supporting the development of robust and maintainable systems.

Skills: TypeScript · React.js · Python · Full-stack Web Development · Scalable Web Application Design · Software Engineering

PROJECT EXPERIENCE

Smart Waste Classification System (SWCS) — Final Year Project Sep 2025 – Jun 2026 | Hong Kong

Designed and built an offline edge-AI waste sorting prototype integrating computer vision, embedded inference and electromechanical control, connecting object sensing and classification with physical sorting.

- Developed a two-stage vision pipeline combining YOLOv8 object localisation and MobileNetV3-Large material classification; deployed inference on NVIDIA Jetson Orin Nano using ONNX Runtime with TensorRT/CUDA support.

WeGreen AI (wegreen.ltd) Oct 2024 – Mar 2026 | Hong Kong

Focused on enhancing waste management efficiency by minimizing classification time. Planned to be finished in 2026.

- Developed an advanced deep learning model using TensorFlow and PyTorch to optimize waste classification efficiency.
- Integrated machine vision recognition technology to enhance classification accuracy and operational speed.
- Utilized IoT technology to enable real-time data transmission and intelligent control of devices.

Personal Portfolio & CV Management System Jan 2023 – Jan 2026 | Hong Kong

Developed a high-performance, secure, and fully customizable personal landing page and CV builder.

- Engineered a full-stack web application using Next.js 13 and TypeScript, featuring a responsive design with Chakra UI and Material UI.
- Developed a secure Admin Dashboard with comprehensive content management capabilities.
- Designed a scalable backend architecture using MongoDB and Docker for data persistence and deployment.
- Integrated third-party APIs to provide real-time data visualization and enhanced functionality.

Project RAKU: AI Assistant Job Search System Mar 2023 – Nov 2023 | Hong Kong

Created an AI-powered job search chatbot integrating OpenAI's API for natural language queries.

- Engineered web scraping tools to extract and consolidate job data from major Hong Kong employment platforms.
- Developed backend services with Python FastAPI and structured the database using MongoDB.

Project GAIA: Design Data Structure Nov 2022 – Nov 2023 | Hong Kong

Focused on designing an optimized NoSQL data structure for storing and retrieving non-structural geostatic data.

- Designed an optimized MongoDB schema for storing and retrieving non-structural geostatic data.
- Applied hashing techniques for data comparison and historical version management.
- Reformatted and restructured raw dictionary and JSON data using Python for improved data handling efficiency.

Project EASILY-CV: CV Generator Aug 2023 – Oct 2023 | Hong Kong

Developed an online CV generator as an open-source project, employing MongoDB Atlas for data storage, Next.js as the full-stack framework, and Docker on Linode for hosting.

- Developed a full-stack Next.js app with MongoDB Atlas, deployed via Docker on Linode.
- Enabled real-time CV updates with advanced React state management and added PDF export via CSS print and Playwright.

Project ASA: Cloud-based Robot Delivery Management System Jul 2023 – Aug 2023 | Hong Kong

Developed a client-driven web application that enables users to design and manage delivery routes for both robotic and human couriers.

- Built a TypeScript and React web app for managing robotic and human courier routes, with advanced state management and list operations.
- Implemented JWT authentication, server-side rendering, and deployment via Docker and NGINX.

AWARDS

YDC Entrepreneurial Program Nov 2024 | Hong Kong

Best Potential Startup & Innovation Award · Young Entrepreneurs Development Council

- Awarded Best Potential Startup & Innovation Award by Young Entrepreneurs Development Council.
- Won HK$15,000 with WeGreen AI among top tertiary teams in Hong Kong.
- Recognized for applying AI to accelerate smart recycling and waste sorting.

PATENTS

Co-Inventor, 8 Patent Applications

2026 | CNIPA

Honsenn Technology Co., Ltd.

Status: Under Examination

- Dual-Positioning Rotating Cap Structure (Invention Patent)
- Elastic Contact Quick-Release Battery Structure for Earphones (Invention Patent)
- Head-Mounted Earphone with Quick-Detach Cable (Utility Model)
- Dual-Positioning Rotating Cap Structure (Utility Model)
- Wrap-Around Head-Clip Structure for Earphones (Utility Model)
- Earphone with Rotating Cap Structure (Utility Model)
- Quick-Release Battery Connector Structure for Earphones (Utility Model)
- Elastic Contact Quick-Release Battery Structure for Earphones (Utility Model)

Inventor and Patent Applicant

2026 | CNIPA

Li Yanpei (Individual Applicant)

Status: Under Examination

- Vertical Spiral Conveyor for Arranging Materials Using Differential Speeds (Invention Patent)
- Vertical Spiral Conveyor for Arranging Materials Using Differential Speeds (Utility Model)

TECHNICAL SKILLS

Python	Proficient.
TypeScript	Proficient.
C++	Intermediate.
Java	Familiar.
React	Experienced in React-based frontend and full-stack development.
Next.js	Experienced in Next.js full-stack application development.
Node.js	Experienced in backend development.
MongoDB	Experienced in NoSQL database design and implementation.
HTML5/CSS3	Experienced in responsive frontend development.

Frameworks & Libraries: React, Next.js

Backend & Databases: Node.js, MongoDB (NoSQL)

Tools & Platforms: Git, Docker, NGINX, Cloudflare

Systems & Infrastructure: Ubuntu Server/Desktop, SSH, Shell Scripting

Networking & APIs: RESTful APIs, Authentication including Basic and JWT/Bearer, OpenAPI/Swagger, HTTP Headers Management

LANGUAGE SKILLS

- Mandarin: Native
- English: Professional Working Proficiency
- Cantonese: Basic (Conversational)