

# Kevin Indrayana Istimur

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## EDUCATION

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### The University of Hong Kong

**GPA: 3.65/4.30**

Computer Science with minor in Finance

September 2021 - July 2025

- **Awards:** First Class Honors, Dean's Honors List, HKU Undergraduate Entrance Scholarship, Chan Tat Chee Memorial Scholarship

## WORK EXPERIENCE

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### Millennium Management Global Investment

**Hong Kong**

Software Engineer under the Systematic Data Platform Team

May 2024 - July 2024

- **Developed a full-stack application for futures data platform**, allowing Quantitative and Equity Arbitrage portfolio managers to focus on generating alpha rather than focusing on data. [Angular](#), [Flask](#), [NestJS](#), [SQLServer](#)
- **Generate optimal futures contract roll timing** by analyzing volume and open interest data [Pandas](#), [Plotly](#)
- **Streamlined the process of reading ~100 emails per week** to keep updated on futures reference data changes by building a RAG solution to enable LLMs reason over proprietary data [Langchain](#), [Python](#), [Azure OpenAI](#)

### Manulife Investment Management

**Hong Kong**

Systems Developer under the Global Wealth and Asset Management Team

June 2023 - August 2023

- **Assisted the team in migrating 40+ iFUNDS applications** from Public Cloud Foundry to [Azure Kubernetes Service](#), and refactored microservices to utilize [API gateway](#)
- **Developed admin portal website** which incorporates SSO authentication to enhance access control of the team. Fixed over 200 security vulnerabilities. [React.js](#), [Express.js](#), [Node.js](#), [MongoDB](#), [Azure AD](#)
- **Built a prompt-based software test generator** in 48 hours for Manulife International Hackathon. Won top 3 place. [React.js](#), [Flask](#), [Github Actions](#), [Azure OpenAI](#)

### Turned E Education Limited

**Hong Kong**

Software Engineer

December 2022 - January 2023

- **Streamlined connection between 100+ tutors and admins** by developing a full-stack Tutor Management web application, replacing conventional email communication, significantly reduced miscommunication. [Next.js](#), [Typescript](#)
- **Developed a drag-and-drop web application that simulates FPGA board** to assist students enrolled in the company's Electrical Engineering course. [Angular](#)

## RELEVANT PROJECTS

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### Maze Solver

[\(view website\)](#)[\(see on Github\)](#)

- Implemented Dijkstra's algorithm to create a pathfinding visualizer that allows users to customize and generate random mazes, finding optimal solutions for each. [React.js](#)

### LLM Optimizer

[\(see on Github\)](#)

- Improved the performance of a large language model (LLM) by 96% through the implementation of parallelized Matrix-Vector-Multiplication using multithreading and synchronization. [C](#), [Linux](#)

### Lox Interpreter

[\(see on Github\)](#)

- Built a minimal interpreter for Lox language. Gained a deeper understanding of data structures, design patterns, and constructing complex, reliable software systems. [Java](#)

## OTHER EXPERIENCES

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**Volunteer at Kamar Pelajar** - Programmed the backend of a web application for a growing Indonesian hospitality startup

**Teaching Assistant COMP2396** - Support 100+ students in Java & Object-Oriented Programming course

**HKU Indonesian Association** - Lead Indonesian Food x Culture event and delivered talk to 50+ incoming students

## SKILLS

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**Programming Languages:** Python, Java, C/C++, JavaScript/TypeScript

**Dev Frameworks:** React.js, Angular, Node.js, Express.js, NestJS, Flask, MongoDB, MySQL, Redux, GraphQL, Docker, Azure

**Relevant Courseworks:** Object Oriented Programming (Java), Web Programming, Data Structures and Algorithms, Software Engineering, Operating Systems, Computer Networks, Cybersecurity, Discrete Math, Machine Learning, Database (SQL)