

## Alfonsus Rodriques Rendy

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### EDUCATION

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#### The Chinese University of Hong Kong, Shenzhen

Shenzhen, PRC

B.Eng., Computer Science and Engineering with Specialization in AI and Minor in Finance

May 2021 – 2025

- Expected Graduation: May 2025
- CGPA: 3.88/4.0, Major GPA: 3.95/4.0 (Top 2% in School of Data Science; Top 1 AI Stream)
- **Awards:** Full Entrance Scholarship, 2021/22 Academic Performance Scholarship, 2021/22/23/24 Dean's List, 2022/23 and 2023/24 Guangdong Outstanding International Student Scholarship recipient, 2024 Shenzhen Universiade International Scholarship Foundation (SUISF) Scholarship recipient
- **Related Courses Taken:** Intro to CS in Python, Statistics & Probability, Programming in C++, Data Structure, Discrete Mathematics, Computer Architecture, Operating System, Advanced Machine Learning, Database System, Software Engineering, Design & Analysis Algorithms, Reinforcement Learning, Fundamental of Speech and Language Processing

### WORK EXPERIENCE

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#### Nitrous.dev

Shenzhen, PRC

Part-Time

January 2023 – February 2023

- Helped troubleshoot technical problems that 20+ users experienced and contributed to improve user experience.
- Managed and monitored AWS Cloud Platforms and reduced system failure by about 30%.

#### All-in Eduspace

Jakarta, Indonesia

Bootcamp Mentor

September 2022 – October 2022

- Taught 30+ high school students the fundamentals of data science, including data exploration, data cleaning, and machine learning in Python.
- Worked in a team to design the syllabus, code template, and worksheet for students.

#### Hometwo

Seattle, USA

Technical Co-founder & Full Stack Developer

July 2022 – November 2023

- Learned and researched multiple technology stacks and decided on the best stack to develop a product.
- Developed web application using Next.JS, integrated backend with frontend, and deployed it to production.
- Cut down time on database management by approximately 15% with optimized administrator system.

### PROJECT EXPERIENCE

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#### Intellitutor

November 2024

- Led a team of three to make a Discord bot for emotional tracker and personal mental health advisor.
- Selected to be top 10 of Hack the 6ix 2022 Hackathon.

#### Intellicord

July 2022

- Led a team of three to make a Discord bot for emotional tracker and personal mental health advisor.
- Used Python and Discord.Py API, and a fine-tuned GPT3 model to generate personalized mental health advice.
- Selected to be top 10 of Hack the 6ix 2022 Hackathon.

#### StudyMate

January 2022

- Implemented a learning collaboration application, including a study-and-chill platform, notes sharing, scheduling, and collaborative open courseware features.
- Planned and build backend APIs using Python in the Django framework.

#### Starlight Chinese Learning

September 2021

- Built an application for learning Chinese language based on the HSK curriculum with flashcards and unit test features using Flask and PostgreSQL.

## RESEARCH EXPERIENCE

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### Towards In-Context Reinforcement Learning

August 2024 – January 2025

- Built the general framework for in-context reinforcement learning (ICRL)
- Benchmarked state-of-the-art algorithms of ICRL as baseline for future ICRL research
- Submitted to 42<sup>nd</sup> International Conference on Machine Learning (ICML 2025)

### Heuristics-Based Induction of LLM for Automated Fault Localization

January – May 2024

- Selected as one of seven projects that achieve distinction.

### LoRA Augmented Generation (LAG): Memory-efficient LoRA-Boosted Mixture of Experts LLM

April – May 2024

- Experience in fine-tuning LLM using Unsloth and Hugging Face library, curating dataset using LLM, and conducting evaluation on LLM using MT-Bench.

## PROFESSIONAL CERTIFICATES

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### TensorFlow Developer and Advanced Techniques

May 2022

DeepLearning.AI via Coursera (Credential ID: XNBZK8TYK9FW)

### Machine Learning

May 2022

Stanford University via Coursera (Credential ID: APE9G7CA3VE5)

### Deep Learning

February 2022

DeepLearning.AI via Coursera (Credential ID: KQ3PDUNUBBQL)

## SKILLS & INTERESTS

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**Programming Language & Framework:** C++, Python, JavaScript, HTML, CSS, SQL, Flask, Django, TensorFlow, PyTorch, NodeJS, React, NextJS, MongoDB, PostgreSQL, Git & GitHub, Hugging Face.

**Software:** Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Figma, MATLAB.

**Language:** Fluent Bahasa Indonesia, Fluent English (IELTS 8.0), and Basic-Intermediate Chinese (HSK 4).

**Interests:** Artificial Intelligence, Deep Learning, Software Engineering, Web Development.