

# KE XIN CHONG (CHLOE)

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## Career Objectives

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Innovative Data Scientist and Machine Learning Engineer specializing in fraud detection, risk scoring, and KYB/KYC solutions. Skilled in building scalable, interpretable ML models and leveraging data-driven insights to solve real-world fintech challenges. Proven ability to collaborate across teams and deliver impactful solutions.

## Experiences

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### Experience at Advance.AI, Singapore

Jan 2023 – Dec 2024

- Designed and implemented a **real-time fraud detection system**, reducing transaction processing time from **850ms to 450ms**, significantly improving system efficiency.
- Built **interpretable machine learning models** using **LIME** and **SHAP** for fraud detection, enabling stakeholders to understand feature importance and decision factors, fostering trust in the system.
- Developed **KYB/KYC-related machine learning pipelines** to streamline customer onboarding and risk assessment processes.

### Experience at Jewel Paymentech Pte Ltd, Singapore

July 2018 – Dec 2022

- Applied **Variational Autoencoders (VAE)** to detect **online payment fraud** by analyzing reconstruction errors, integrating advanced feature engineering techniques such as **one-hot encoding**, **numerical scaling**, and **Truncated SVD (TSVD)**.
- Engineered and deployed a **text classification model** for **merchant risk categorization**, reducing manual review workload by **40%**.
- Designed **end-to-end production pipelines** for machine learning models, ensuring seamless integration into business processes.

### Internship at The China Navigation Company Pte Ltd, Singapore

May 2017 - July 2017

- Developed a **Cyber Security Incident Response Plan**, streamlining organizational responses to security threats.
- Analyzed incident reporting data and created an actionable communication framework for incident management.

### Internship at Linde Gas Asia Pte Ltd Digitalisation team, Singapore

Jan 2018 – April 2018

- Deployed a **Raspberry Pi** to automate gauge pressure monitoring, capturing and processing images of pressure gauges.
- Developed a **Python program** to convert gauge images into pressure readings, improving data collection efficiency.

## Education

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### Georgia Institute of Technology, Atlanta, GA

Jan 2025 – Dec 2025 (Expected)

- Candidate for Master of Science in Computer Science
- Specialization in Data Science
- GPA 4.0/4.0

### Stanford Online Artificial Intelligence Professional Program

Sept 2020 – Dec 2020

- Completed coursework in Natural Language Processing with Deep Learning

### Nanyang Technological University, Singapore

Aug 2014 – May 2018

- Bachelor of Science (Honours) in Mathematical Sciences
- Specialization: Applied Mathematics
- Minor in Computing and Data Analysis

## Skills

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**Programming:** Python, C++, Java, SQL, Docker, Git

**Concepts:** Machine Learning, Data Analysis, Object-Oriented Programming, Cloud Computing (AWS, GCP), Web Scraping, Online Payment Systems (Singapore), Graph Databases, KYB/KYC Compliance

**Communication:** Rapid Prototyping, Data Visualization (Tableau, Plotly, Matplotlib), Cross-functional Collaboration

**Language:** English (professional), Chinese (native), Malay (intermediate)