KE XIN CHONG (CHLOE)

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Career Objectives

I'm passionate about building intelligent systems that enhance trust and transparency in decentralized finance. With 6+ years in fraud detection, risk scoring, and KYB/KYC across fintech, I aim to drive innovation at the intersection of data science and Web3. I specialize in scalable, interpretable ML models for anomaly detection, risk assessment, and compliance. I'm seeking opportunities to strengthen decentralized systems through secure, data-driven infrastructure.

Experiences

Advance.AI, Singapore | Senior Data Scientist Jan 2023 – Dec 2024

- Designed a real-time fraud detection system, reducing processing time from 850ms to 450ms.
- Built interpretable ML models with LIME and SHAP to support transparent fraud decision-making.
- Developed KYB/KYC pipelines for automated onboarding and dynamic risk profiling.

Jewel Paymentech Pte Ltd, Singapore | Data Scientist July 2018 – Dec 2022

- Applied Variational Autoencoders for online payment fraud detection via reconstruction errors.
- Developed a merchant risk classifier that reduced manual review by 40%.
- Created production-ready ML pipelines to automate risk model retraining and deployment, improving model freshness.

The China Navigation Company Pte Ltd | Cybersecurity Intern May 2017 - July 2017

- Designed an incident response framework based on real-world reporting data.

Internship at Linde Gas Asia Pte Ltd Digitalisation team, Singapore Jan 2018 – April 2018

- Automated gauge pressure monitoring with a Raspberry Pi and image processing in Python.

Education

Georgia Institute of Technology, Atlanta, GA
M.S. in Computer Science (Machine Learning specialization) | GPA: 4.0/4.0
Expected Dec 2025

- **Graduate Teaching Assistant, CS7280 (Network Sciences, OMSCS)**
  - Mentored 200+ students, hosted weekly office hours, and graded assignments.

Stanford Online | NLP with Deep Learning
Sep – Dec 2020

Nanyang Technological University, Singapore
B.Sc. (Hons) in Mathematical Sciences (Applied Math) | Minor in Computing and Data Analysis
Aug 2014 – May 2018

Skills

ML & Data Science	**:** Machine Learning, Data Analysis, Anomaly Detection, Risk Assessment, Data Visualization (Tableau, Plotly, Matplotlib)
FinTech & Compliance	**:** KYB/KYC Compliance, Online Payment Systems, Fraud Detection, Risk Scoring
Tools & Technologies	**:** Python, C++, Java, SQL, Docker, Git, AWS, GCP
Communication	**:** Rapid Prototyping, Data Visualization (Tableau, Plotly, Matplotlib), Cross functional Collaboration
Language	**:** English (professional), Chinese (native), Malay (intermediate)

Projects

Voicy: Decentralized AI Voice Marketplace on Flow | *Permissionless IV, June 2025*

- Co-developed a Web3 platform to enable creators to enable creators to license their voices via smart contracts and earn royalties from AI-generated audio.
- My primary contribution was architecting the backend AI engine, which securely handles voice cloning and integrates with Flow smart contracts to automate royalty payments (USDC) to voice creators.
- The project architecture lays the groundwork for future "voice as digital identity" applications, a key component for building trust in decentralized systems.
- **Tech Stack:** Python (Flask), Docker, Flow Blockchain (Smart Contracts, USDC), IPFS.
- **Code:** github.com/fayedaihall/voicy
- **Slides:** https://bit.ly/voicy-slides