

# Zayn Zheng Zhi

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## PROFESSIONAL SUMMARY

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*10 years of work experience in data, AI and software engineering fields and 5 years experience dedicated to managerial roles.*

*Demonstrated ability to understand complex data sets, extract insights, and provide valuable recommendations.*

*Effective communicator with the ability to work collaboratively with internal stakeholders and external parties.*

*Led teams of up to 15 members across multiple countries in previous roles.*

## EDUCATION

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### Northwestern University

*Master of Science in Data Science*

**Evanston, IL, United States**

December 2028

- Specialization in Artificial Intelligence

### The Hong Kong University of Science and Technology (HKUST)

*Master of Business Administration (MBA)*

**Hong Kong**

June 2026

- Global Leadership Program

### The University of Chicago

*Professional Education Program*

**Chicago, IL, United States**

May 2024

- Artificial Intelligence and Data Science for Leaders

### Huazhong University of Science and Technology (HUST)

*Bachelor of Engineering in Automation*

**Wuhan, Hubei, China**

June 2014

- Specialization in System Engineering (Computer Engineering)
- Co-founder of C-Indigo team to develop Android games

## MANAGERIAL & TECHNICAL SKILLS

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- People and agile project management.
- Critical and analytical thinking.
- Machine learning engineering architecture.
- Data strategy and management.
- GDPR/PDPA Singapore, AI Act.
- Vendor management and coordination; model quality and data quality strategy.

- **Application:** Spring Boot, Cloud Foundry (PCF), Jenkins, Quality Gates, JMeter, OpenAPI, PostgresDB, MQ, HashiCorp Vault.
- **Big data:** Spark, Spark ML, Pandas, Impala, Livy, Yarn, Hadoop, Nifi, Splunk, Pytest–PySpark.
- **Deep learning:** TensorFlow, Keras.
- **Cloud Service:** Cloudera (CML, Hue, Spark on K8s), Databricks MLflow, AWS S3, Terraform.

## EXPERIENCE

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### Mastercard

**Singapore**

Sep 2023 – Present

*Engineering Manager, Data Engineering*

- Member of Software Engineering Guild and AI & Data Science Guild. Managed core team of 5; led automated ML and model monitoring pipelines; handled OKRs, talent planning, performance reviews.
- Directed AI Governance/Responsible AI services for NA & EU. Built privacy-compliant pipelines with Legal/Compliance.
- Supported GTM solutions (Dynamic Yield, Portfolio Optimizer, Consumer Credit Analytics, Supplier Enablement).
- Migrated on-prem prediction workflows to AWS & Databricks; improved scalability and performance.
- Owned MLOps pipeline management for 500+ cardholder models; improved data/model quality and release reliability.

### Apple

**Singapore**

Jul 2023 – Sep 2023

*Data Solutions Lead*

- Implemented data integration and warehousing for Global BI; migrated SAP reports to Snowflake & Tableau across India, Singapore, China.

### OKX

**Singapore**

Dec 2022 – May 2023

*Data Architect*

- Supported C-suite data architecture & digitization; improved lineage/quality/metadata; stabilized commission rebate pipelines.
- Built hybrid streaming–batch pipelines; delivered real-time user segmentation for personalization.

### Shopee

**Singapore**

May 2019 – Sep 2022

*Data Team Lead*

- Led advertisement data teams (10 SG + 4 BJ); interviews, mentorship, OKR management.
- Built real-time ML data engine; implemented Hudi lakehouse (Kappa DW) for near-real-time market DW across SEA & LATAM.
- Developed ads DW, CRM dashboards, merchant analytics; standardized GDPR-aligned data governance.

### Alibaba

**Hangzhou, China**

Apr 2017 – Feb 2018

*Engineer II*

- Built seller onboarding/transfer/qualification systems; unified qualification DW across Alibaba, Alipay & government.

**Mogujie**

**Hangzhou, China**  
May 2015 – Mar 2017

*Senior Development Engineer*

- Built real-time trading data engines; MQ-based order system; ensured consistency in distributed trading systems.

**Zhenai.com**

**Shenzhen, China**  
Jun 2014 – Apr 2015

*Assistant Java Engineer*

- Maintained backend projects (Spring MVC, Hibernate, MySQL, JSP).

**ADDITIONAL INFORMATION**

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- Nationalities: Chinese; Singapore PR.
- Languages: English, Mandarin Chinese.
- Community: Mentor (Mentoring SG Program); Industry Mentor (NTU).
- Certifications: PDPA Practitioner (Singapore); Databricks Fundamentals; Databricks Lakehouse Fundamentals; Data Engineering with Databricks; Applied AI with Deep Learning.