

Chloe Minkyung Kim

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Core Skills: Java · Python · SQL · Snowflake · ETL & Data Pipelines · Real-time & Batch Architecture

Education

Hong Kong University of Science and Technology

Sep 2016 – Jan 2020

Bachelor of Engineering in Computer Science

Experiences

Goldman Sachs, Singapore

Apr 2024 – Present

Associate

- Leading the design and implementation of the **Lakehouse** platform — a global unified architecture combining the flexibility of a data lake with the performance, structure and governance features of a data warehouse.
- Built core ETL and data transformation and entitlements frameworks mainly in Java, SQL and **Pure**, working with Snowflake, **Legend** and **Alloy** to integrate global business domains.
- Introduced end-to-end data latency improvements: transitioned from multi-day latency to minutes for globally distributed datasets, enabling near-real-time analytics and decision-making.
- Elevated data governance, metadata management and lineage across the platform — helping to establish the Lakehouse as a single source of truth for upstream analytics and downstream applications.
- Positioned the platform for general availability (GA) by end-of-year, coordinating architecture, compliance, operational readiness and cross-regional rollout.

Dozer, Singapore

Dec 2022 – Mar 2024

Founding Software Engineer

- Architected and implemented a high-throughput real-time data access platform in Rust, delivering 4.92 ms average latency across almost 10,000 concurrent requests at 50 concurrencies.
- Built streaming connectors (Postgres, Snowflake, Ethereum, Kafka, AWS S3, object stores) and a native SQL engine using RocksDB, enabling joins over 100 million records in 10 minutes.
- Designed and deployed Stripe webhook integration with Rust Diesel, EKS/Minikube deployments, and snapshot/checkpoint mechanism for object stores like S3 and DeltaLake.
- Presented product demos at Big Data & AI World Singapore, Big Data Conference Europe, and APIdays Paris.

Goldman Sachs, Singapore

Jul 2020 – Dec 2022

Analyst

- Developed and open-sourced a **milestoning component library** using SQL, H2, and Snowflake to version temporal data in large-scale systems.
- Contributed to the Legend open-source data modelling ecosystem via the **Studio tool** and persistence service, improving developer productivity and testing capabilities.
- Improved stability, scalability and latency for the Alloy Streaming ETL platform: leveraged Java, Prometheus, Grafana and Kubernetes to build data-reliability features.
- Operated and optimized Kafka-based distributed ETL pipelines embedded within Kubernetes for high-throughput ingestion and real-time data flows.

JP Morgan Chase & Co., Hong Kong

Jun 2019 – Aug 2019

Summer Analyst

- Built a personalized recommendation system for the Private Banking web platform using Python, Java, Angular and Flask on Gaia (JPMC's cloud), with collaborative filtering and user-clustering algorithms to enhance user experience.

Imago.AI, Hong Kong

May 2018 – Aug 2018

Artificial Intelligence Researcher

- Developed a neural Question and Answer model based on Bi-Directional Attention Flow + self-attention for SQuAD & MS MARCO datasets.
- Created a Chinese Named Entity Recognition model with BiLSTM + CRF targeting Hong Kong address datasets, enhancing extraction accuracy.

Projects & Research Experience

News Data Processing for Fake News Detection, Final Year Project

May 2018 – May 2019

- Designed a multi-modal neural network for fake-news detection, combining text, image, and query-based modules to improve classification accuracy and model diversity.
- Implemented a fact-checking pipeline using BiDAF (Bi-Directional Attention Flow) and AllenNLP Decomposable Attention models, introducing a claim-and-evidence-driven verification approach.
- Deployed trained models behind an exposable REST API / web service, enabling scalable integration with external applications for real-time news verification and content analysis.

BundlePort, Startup Project

Jan 2018 – May 2019

CEO / CTO

- Founded and led a startup developing a full-stack web platform for retail logistics management, built with Node.js and MySQL, and deployed on AWS EC2, S3, Elastic Beanstalk, and CloudFront.
- Directed overall product vision, engineering roadmap, and sales operations, managing cross-functional coordination between development and retail teams.
- Focused on UI/UX optimization and process automation, improving transaction efficiency and streamlining logistics workflows for partner merchants.

Skills

Technical Skills	Java, Python, Java, Python, SQL, Snowflake, Rust, PyTorch, Tensorflow, C++, Prometheus
Language Skills	English (Fluent), Korean (Native), Mandarin (Intermediate)

Honors and Awards

- JPMorgan Chase & Co. Internal Innovation Week Hackathon 2019 Winner (JPMC Trends), 2019
- SmarTone Hackathon 2018 "Smart Properties", Interactive Property Chatbot - Top 3 Project, 2018
- Targeted Scholarship under HKSAR Government Scholar Fund, Full Scholarship, 2016 - 2020
- Admission Scholarship from HKUST, Full Scholarship, 2016 - 2020
- Mensa Membership from Malaysia Mensa (Mensa International), High IQ society, 2015