

Chloe Minkyung Kim

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Education

Hong Kong University of Science and Technology
Bachelor of Engineering in Computer Science

Sep 2016 – Jan 2020

Experiences

Dozer, Singapore

Dec 2022 – Present

Founding Software Engineer

- Led the team to build a new data accessing platform in Rust called **Dozer**, focusing on enhancing its performance and robustness to deliver real-time, higher throughput APIs.
- Implemented various connectors for Postgres, Snowflake, Ethereum, gRPC ingestion, AWS S3, Kafka and Object stores which can deliver real-time data API with an average of 4.92 ms at a very high throughput of 10000 total requests at 50 concurrencies.
- Implemented inbuilt native SQL engine that supports real-time data transformations in streaming fashion with Rocksdb enabling multiple joins executed over 100 million records in 10 mins.
- Designed and implemented Stripe webhook with Rust Diesel integration for Dozer cloud deployment service using EKS and Minikube and developed snapshotting checkpointing functionality for object stores such as AWS S3 and Deltalake.
- Participated in various conferences and events as a founding software engineer to present demos - **Big Data & AI World Singapore**, **Big Data Conference Europe**, and **APIdays Paris**.

Goldman Sachs, Singapore

Jul 2020 – Dec 2022

Analyst

- Implemented and open-source **big data milestoning component library** integrated with Ansi, H2, MemSQL and Snowflake.
- Contributed towards open-source **Legend** for user enablement for testing on data modelling tool called **Studio** using service called persistence integrated with milestoning library.
- Improved stability, scalability, availability and latency by developing platform-based data reliability for Alloy Streaming (big data ETL platform) and Product Data Engineering space using Java, Prometheus, Thanos, Grafana.
- Experienced in handling Kafka distribution system embedded in ETL platform with Kubernetes.

JP Morgan Chase & Co., Hong Kong

Jun 2019 – Aug 2019

Summer Analyst

- Developed a Personalized Recommendation System based on collaborative filtering with user clustering algorithm to improve client's user experience on international private bank website using Python, Java, Angular with Flask API deployed on Gaia (JPMC's cloud service) which enabled firm wide application.

Imago.AI, Hong Kong

May 2018 – Aug 2018

Artificial Intelligence Researcher

- Implemented a Neural Question & Answering model based on Bi-directional Attention Flow architecture with additional Self-attention mechanism to improve localization precision for pointer network, on SQuAD and MS MARCO dataset.
- Implemented a Chinese Named Entity Recognition model using Bi-directional LSTM with CRF on Hong Kong address dataset.

Projects

News Data Processing for Fake News Detection, Final Year Project

May 2018 – May 2019

- Proposed a comprehensive and diverse neural network-based model for fake news detecting system consisting of text, multi (text-and-image), and query modules.
- Implemented an alternative claim & evidence based approach of fact checking for fake news detection using BiDAF model and Allen NLP Decomposable Attention model pipeline with exposable API/web service for trained models.

BundlePort, Startup Project

Jan 2018 – May 2019

CEO / CTO

- Developed Full-stack web application focusing on enhancing UI/UX using Node.js and MySQL, and deployed on cloud server using AWS EC2, S3, Elastic Beanstalk, and CloudFront with responsibilities as a CEO to lead and manage the core logistic process and retail sales team activities.

Skills

Technical Skills Rust, Java, Python, K8s, Prometheus/Thanos, Grafana, Go, PyTorch, Tensorflow, SQL, C++

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