Min Yi "Christopher" Lau

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EMPLOYMENT HISTORY

Nov 2021 — Present
Senior Software Engineer, Deliveroo
London

- Working as a backend engineer to develop scalable systems for Deliveroo's order dispatch system which assigns on average 1 million orders to riders daily.
- Work with machine learning scientists and data scientists to productionize algorithms and prediction models to optimize rider delivery assignments.
- Lead the enhancement of our order stacking algorithm which increased the efficiency of rider deliveries resulting in a 5% reduction in operational costs.
- Key contributor in migrating the team's data store from PostgreSQL to DynamoDB, boosting database performance and scalability. The project's success led to its publication as an AWS blog post.
- Improved the reliability of our snowflake ETL pipeline to 99.999% which stores petabytes of data used to train our machine learning models.
- Work with event driven systems using Kafka to ensure rider to order assignments are published to the rider application reliably.
- Work with relational databases such as PostgreSQL and non-relational databases and caches such as DynamoDB and Redis for efficient data querying and storage.
- Championed the seamless migration of several key critical components of the dispatcher from Ruby to Golang.
- Mentor new engineers introducing ways of working within the company.
- Technologies used include Rust, Golang, Ruby on Rails.

Dec 2020 — Nov 2021
Software Engineer, Ocado Technology
London

- Worked on developing the new Ocado warehouse technology for the next generation 'Ocado Smart Platform' (OSP) warehouses.
- Lead the development of the first OSP application in AWS which increased the inbound logistics and fulfillment throughput of all Ocado retailers by 15%.
- Work with relational databases such as PostgreSQL and non-relational databases and caches such as DynamoDB and Redis for efficient data storage.
- Technologies used include Java 11, SpringBoot for backend RESTful microservices and ReactJS, Typescript for frontend applications.

Sep 2018 — Dec 2020
Software Engineer, Capital One UK
London

- Worked on developing scalable RESTful microservices for an application used by agents to set up credit card payment plans.
- Championed the migration of our ETL pipeline to AWS message queues (SQS) with AWS Lambda, increasing reliability of events sent to our data lake to 99.999%.
- Developed a NodeJS command line tool to simplify the management of application secrets, currently used by multiple engineering teams across the company.
- Technologies used include Java 11, Spring Boot, NodeJS, Express, Jenkins and AWS.

PERSONAL WORK

Dec 2019 — Present
Credit Card Sanitizer | https://chrislmy.github.io/credit-card-sanitizer

- An open source Java library providing utility functions that sanitizes free text and masks out sensitive credit card numbers to prevent them from being provided unintentionally.

EDUCATION

Sep 2015 — Jun 2018
BSc Computer Science, University College London (UCL)

Grade: First-Class Honors

SKILLS

Java, Spring Boot, NodeJS, Golang, TypeScript, DynamoDB, SQL, Kafka, Docker.