

# Min Yi “Christopher” Lau

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## EMPLOYMENT HISTORY

Nov 2021 — Present	<b>Senior Software Engineer, Deliveroo</b>	London
	<ul style="list-style-type: none"><li>• Working as a backend engineer to develop back-end systems for Deliveroo’s order dispatch system which assigns on average 1 million orders to riders daily.</li><li>• Work with machine learning scientists and data scientists to productionize algorithms and prediction models to optimize rider delivery assignments.</li><li>• Lead the enhancement of our order stacking algorithm which increased the efficiency of rider deliveries resulting in a 5% reduction in operational costs.</li><li>• 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 <a href="#">blog post</a>.</li><li>• Improved the reliability of our snowflake ETL pipeline to 99.999% which stores petabytes of data used to train our machine learning models.</li><li>• Work with event driven systems using Kafka to ensure rider to order assignments are published to the rider application reliably.</li><li>• Work with relational databases such as PostgreSQL and non-relational databases and caches such as DynamoDB and Redis for efficient data querying and storage.</li><li>• Mentor new engineers introducing ways of working within the company.</li><li>• Technologies used include Rust, Golang, Ruby on Rails.</li></ul>	
Dec 2020 — Nov 2021	<b>Software Engineer, Ocado Technology</b>	London
	<ul style="list-style-type: none"><li>• Worked on developing the new Ocado warehouse technology for the next generation ‘Ocado Smart Platform’ (OSP) warehouses.</li><li>• Lead the development of the first OSP application in AWS which increased the inbound logistics and fulfillment throughput of all Ocado retailers by 15%.</li><li>• Reduced page load times by 60% by profiling performance and addressing major bottlenecks.</li><li>• Work with relational databases such as PostgreSQL and non-relational databases and caches such as DynamoDB and Redis for efficient data storage.</li><li>• Technologies used include Java 11, SpringBoot for backend RESTful microservices and ReactJS, Typescript for frontend applications.</li></ul>	
Sep 2018 — Dec 2020	<b>Software Engineer, Capital One UK</b>	London
	<ul style="list-style-type: none"><li>• Worked on developing scalable RESTful microservices for an application used by agents to set up credit card payment plans.</li><li>• 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%.</li><li>• Developed a NodeJS command line tool to simplify the management of application secrets, currently used by multiple engineering teams across the company.</li><li>• Mentor interns and graduates, getting them up to speed with our technology stack.</li><li>• Technologies used include Java 11, Spring Boot, NodeJS, Express, Jenkins and AWS.</li></ul>	

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## PERSONAL WORK

Dec 2019 — Present	<b>Credit Card Sanitizer</b>   <a href="https://chrislmy.github.io/credit-card-sanitizer">https://chrislmy.github.io/credit-card-sanitizer</a>
	<ul style="list-style-type: none"><li>• 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.</li></ul>

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## EDUCATION

Sep 2015 — Jun 2018	<b>BSc Computer Science, University College London (UCL)</b>
	Grade: First-Class Honours

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SKILLS	Java, Spring Boot, NodeJS, Golang, TypeScript, DynmoDB, SQL, Kafka, Docker.
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