

Yuan ZHUANG

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EXPERIENCE

ByteDance Pte. Ltd.

Singapore

TikTok E-Commerce – Software Engineer (Backend)

July 2023 – Present

- Designed and built event-driven compliance systems that scan and flag sellers and products for policy violations when new local regulations are introduced, with upwards of 100,000 sellers and products scanned daily for violations
- Designed and built Pay-on-Behalf systems for non-compliant products selling in the EU, complete with a flagging system and external-facing, secured APIs for monthly tax reporting.
- Produced terabytes of E-commerce data by developing Spark tasks to load data from warehouses (Hive) into OLAP environments (ClickHouse) for risk analytics, optimizing queries with appropriate partitioning and indexing.
- Built scalable backend APIs to serve OLAP data, and also refactoring the previous code base, reducing development time by 40% through reusable component architecture

ByteDance Pte. Ltd.

Singapore

Global Payments – Software Engineer (DevOps/SRE)

Feb 2022 – July 2023

- Designed a highly concurrent real-time monitoring service that detects potential system faults within 5 minutes with 99.9% confidence rate
- Implemented a fault diagnosis service that automatically retrieves error logs to identify and troubleshoot system issues
- Streamlined company services by implementing multi-region deployment compatibility, enabling increased availability and disaster recovery

Tencent Cloud Service Pte. Ltd.

Singapore

IaaS – Software Engineer (DevOps/SRE)

July 2021 – Feb 2022

- Primarily diagnosed and resolved problems with Linux-based compute infrastructure using various diagnostic tools, resolving errors related to the Linux kernel, correctable memory errors, as well as common network and VPC issues.
- Responsible for deployment and release of updates across multiple datacenters across thousands of machines

Volansi, Inc

San Francisco, CA, USA

DevOps Engineer Intern

Aug 2019 – Jul 2020

- Developed and implemented the software life cycle process for the company, including the automation of software deployments, testing, and releases using CI/CD tools.
- Shipped applications using IaC tools such as AWS CloudFormation and Terraform.

EDUCATION

National University of Singapore (NUS)

Singapore

Bachelor of Engineering (Honours), Computer Engineering

June 2021

- **Relevant Coursework:** Software Engineering, Operating Systems, Computer Networks, Computer Organization, Artificial Intelligence, Machine Learning, Data Science

NUS Overseas Colleges (Silicon Valley)

San Francisco, CA, USA

Entrepreneurship and startup internship program

August 2019 – July 2020

PROJECTS

Home Sweet Home

Singapore

Founder

Sep 2018 – Sep 2020

- Led a team of 5 to build and ship an AR furniture app
- Attained a \$10,000 grant from NUS School of Computing
- Pitched to & collaborated with furniture companies to digitize their furniture
- Cross-platform development of mobile application

SKILLS

Programming Languages: Go (Proficient), Python, JavaScript

Technologies: Docker, MySQL, NoSQL, RPC, Message Queues, Linux