

Thea Olivia Yusuf

Software Engineer

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I am a 6-year experienced T-shaped software engineer with backend focus from Indonesia but currently based in Stockholm, Sweden and holding permanent residence permit. My main interest is distributed system and data infrastructure design and implementation, with experience with data engineering and DevOps/Infrastructure and front-end development.

Experience

Unity Technologies

Software Engineer

August 2022 -

- Engage both 220 external and 7000 internal customer by built Unity's IAM solution with SCIM/OIDC policy written in **Go** and integrated with **Okta's Autho**
- Reduce company cost by 50% by designing and migrating from monolith to micro service application written in **Go** utilising **MongoDB** including their **Atlas** service, deployed with **Docker** container inside **Kubernetes** and run on **Google Cloud Platform**.
- Improved troubleshooting and on-call experience by maintaining and using **Grafana** dashboard using **Prometheus** metrics
- Reduce the vulnerabilities of project by participating in **threat modelling** session with the team and **implemented REST security recommendations from OWASP**, we were using **OWASP ZAP** for this one.
- Main contributor of [id.unity.com](https://github.com/unity-id) codebase which is written in **Ruby on Rails**
- Migrating legacy Unity dashboard **React** repository from **JavaScript** to **TypeScript** by replacing **Material UI v4** to **v7**

Klarna

Data Engineer

June 2020 - July 2022

- Speeded up decisions by served 4 variables in just 1 week by maintain and improve serving layer of Klarna data processing powerhouse written mainly in **Java**, consisted of **AWS Lambda** and **DynamoDB** ingestion, **Kafka** realtime ingestion and **RabbitMQ** that run upon **AWS EC2** which is containered by **Docker**
- Shortened pipeline processing time from 24 to 12 hours by decommissioned an old realtime database system and create new model result with **PosgreSQL** that executed with **Airflow** which send to **AWS Redshift**, carefully deployed with **Jenkins** and some **Ansible** script with some **Python3** automation scripts
- Increased stakeholder engagement by 30% and less onboarding time using **ReactJS** and some **GraphQL**
- Increased team productivity and data correctness by 20% by participate in on-call rotations to ensure quality of the pipeline service through monitoring with **Splunk**, **QlikSense** and **DataDog**

Software Engineer

January 2020 - June 2020

- Improved candidate acquisition amount from 10 to 20% of daily batch by designed and built an internal extension of **Lever**, a popular HR management software which is written in **Python3** with **Flask** framework containered with **Docker**
- Speeded up recruiters accountability from 1 month follow-up time gap to the slowest is 2 weeks by did ETL job of **Lever** external data and clean up internal data that is the result of the ETL job and stored in **AWS RDS**

Freelance Software Developer

January 2018 - December 2019

- Acted as a software consultant for small to medium businesses
- Designed and implemented RESTful API using **Flask** which is written in **Python** server for a project which develop a coupon sharing social media web application, also orchestrate to deploy on cloud service which was **AWS EC2**

Projects

2023 **DuckStream**, <https://github.com/teaolivia/DuckStream>

A React-based WebOS TV app that can play videos that can be served in separate server. Currently ongoing.

2019 **viral.in**, <https://github.com/teaolivia/viral.in> and <https://github.com/teaolivia/viralin-client>

One of freelancing project. An app which combined discount coupon and social media. Designed and implemented RESTful API with **Flask** and **ReactJS** for frontend. Containered with **Docker** which ran upon **AWS** stack.

Accomplishment

2021 Participant in Google Hash Code 2021

2017 Participant in ACM-ICPC 2017 Regional Contest in Southeast Asia region

2016 Selected as one of the finalists team in Facebook Indonesia Developer Challenge

Education

Bandung Institute of Technology

Bachelor of Science in Computer Science

September 2011 - April 2018

Thesis Malware Detection in Application Layer with Machine Learning Methods

Courseworks Algorithm and Data Structures, Object-Oriented Programming, Distributed and Parallel Systems, Databases, Machine Learning