# Thea Olivia Yusuf

Software/Data Engineer

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I am a data/software engineer from Indonesia but currently based in Stockholm, Sweden. Currently I am involved in migrating a monolith application of size in petabytes to microservices with Unity Technologies since late Summer 2022. Before I worked on data pipeline transformation with Klarna for 2 years and 6 months. Back then I have experience on various backend and even frontend projects which build my software design fundamentals.

## 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.

### Klarna

Data Engineer — *June 2020 - July 2022*

- Speeded up decisions with serve 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**
- Increased speed of market acquisition by 15% by **doing ETL job**

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