Worapol Boontanonda

MSc Student · Ex Data Engineer

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Education

MUIC (Mahidol University International College)

B.Sc Computer Science

• First class honours - GPA 3.57

The University of Edinburgh

M.Sc High Performance Computing

• Currently studying expected to graduate in August 2022

Nakornpathom, Thailand Sept. 2014 - Aug. 2018

Edinburgh, United Kingdom Sept. 2021 - Aug. 2022

Skills_

Programming Python, Javascript, Typescript, C/C++, Java, Scala, C#, Bash

Development Essential Git (Github, Gitlab, Bitbucket), CICD (Gitlab), Jira/Confluence, Markdown

HPC OpenMP, MPI, CUDA, Slurm, compiling on Intel/Cray/GNU/NVIDIA

Cloud/Deployment Tools Docker, Kubernetes, AWS(Server, Serverless, Container), CDK, Terraform

Languages Thai - Native, English - Highly Proficient, Chinese - Beginner Level

Experience

MUIC (Mahidol University International College)/ TTET (Toyota Tsusho Electronics Thailand)

Nakornpathom/Bangkok, Thailand

BACKEND DEVELOPER / DEV OPS• Collaborated in writing the window segmenter python program to slice data for data analysis

Wrote deployment scripts for docker-machine to create AWS EC2 instances

• Deployed and support data science team in running their program on EC2 instances this includes creating a Dockerfile for the data science code

TTET (Toyota Tsusho Electronics Thailand)

Bangkok, Thailand Aug. 2017 - Sep. 2017

Jan. 2018 - May. 2018

May 2017 - July 2017

DATA ENGINEER / RESEARCHER/ INTERNSHIP

• Benchmark the performance of big table such as Hbase using Geomesa on traffic data vs PostGis

• Attempted to concurrently read and filter GIS data on PostGIS using Scala and compare it against Geomesa

• Concluded on the findings on Geomesa and PostGIS performance on TTET traffic data

MUIC (Mahidol University International College) / NEXTY (Toyota Tsusho Nexty Electronics Thailand)

Nakornpathom/Bangkok, Thailand

DATA ENGINEER / DEV OPS / BACKEND DEVELOPER

• Wrote a library to launch jobs/tasks on Kubernetes programmatically

· Wrote a data pumper which pump information from the RDS into Kafka

• Wrote a python connector that connect to Kafka and pull information to serve the client

• Deployed web application of the system on docker machine

Wrote a live stream pumper which pump data from Kinesis into Kafka

• Performance optimization in pumping and consuming data in Kafka

NEXTY (Toyota Tsusho Nexty Electronics Thailand) / TTMI (Toyota Tsusho Mobility Informatics)

Bangkok, Thailand Sept. 2018 - May. 2021

DATA ENGINEER• Wrote serverless backend batch processing system using AWS Lambda in Python and Javascript

• Infrastructure as a code using AWS CDK (Cloud Development Kit) using Typescript for deploying AWS server and serverless application

• Infrastructure as a code using Terraform deploying a Kubernetes base system

Wrote backend Rest API using ExpressJS and Django

• Wrote frontend application using React

• Wrote API documentation and detail requirement of the application

The University of Edinburgh

STUDENT/RESEARCHER

Edinburgh, United Kingdom

Sept. 2021 - present

• Threaded programming using OpenMP - benchmarking and optimising existing program using different scheduling options for parallel loop

- Messaging passing programming using MPI to parallelise existing percolation simulation program
- · Benchmarking and optimising application using different compilers and compilers flags
- Converting an existing serial/CPU application to execute on a GPU using CUDA or OpenMP targets

Honors & Awards

DOMESTIC

2016 **Honorable Mention Prize**, Thailand IT Contest Festival

Bangkok, Thailand Hambura Germany

2022 Participant, ISC Student Cluster Competition