

Phillbert Neil Tan

2nd Year Computer Science Student

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Experiences

Lead Software/DevOps Engineer (Remote Volunteer)

PHILIPPINE RED CROSS - COVID-19 PLATFORM

May 2020 - Present

- Built the e-CIF (Electronic Case Investigation Form) deployed at the Ninoy Aquino International Airport (Manila) for the COVID-19 testing of incoming international travellers using **NextJS**, **Apollo GraphQL**, and **MySQL**.
- Created a web app running on a DigitalOcean **Kubernetes** cluster handling upwards of **1TB worth of HTTP requests** each month to better track the COVID-19 testing process of patients at the Philippine Red Cross.
- Expedited the COVID-19 testing process through automation tools built in **TypeScript** to increase daily COVID-19 testing across different Philippine Red Cross chapters
- Designed and developed the infrastructure to increase national COVID-19 testing volume for the Philippines by 2.5x to 30,000 per day in partnership with McKinsey and Company and various government agencies.
- Improved passenger processing time per flight from 12 hours to 2.5 hours on average at the Ninoy Aquino International Airport in Manila to increase inbound passenger volume and further boost Philippine economy.

Teaching Assistant - CPSC 210 - Software Construction in Java

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September 2020 - Present

- Facilitating lab sessions and helped students further understand the course curriculum in **Java**

Backend Developer, Lead DevOps (Remote Volunteer)

DASHBOARD PHILIPPINES

March 2020 - Present

- Worked in a team of around 30 people using **TypeScript**, **NodeJS**, and **GraphQL** delivering data on COVID-19 resources in the Philippines.
- Migrated the backend infrastructure from Heroku to **Google Cloud Platform**
- **Docker**-ized the entire platform to increase performance to accommodate for more than 10,000+ users per day.
- Reduced overhead on **NextJS** Application to speed up rendering of 10,000+ data points on a map
- Sped up deployment pipeline by integrating **GitHub Actions** and **Google Cloud Build** to deploy to **Google Cloud Run**

Projects

Fullstack Developer (Personal Project)

PROJECT AMIHAN - NATIONAL AIR QUALITY MONITORING SYSTEM (PHILIPPINES)

July 2019 - Present

- Worked in a team of around 20 other people to crowdsource weather data from **Arduino Microcontrollers** for research initiatives
- Rebuilt backend API from **Vanilla PHP** to **Slim** with **MySQL**
- Created frontend-facing site using **React** and **SemanticUI**

Hackathon Project

X-LEARN (HACK THE NORTH 2019)

September 2019

- Created a Machine Learning Model using **Azure Custom Vision** detecting Brain Hemorrhage, Pneumonia, and Diabetes using X-Ray Scans.
- Built backend Serverless API using **Firebase Functions** and **NodeJS**
- Contributed to frontend-facing site using **React** and **Shopify Polaris**

Education

Bachelor of Arts in Computer Science and Commerce

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Sept. 2019 - Present

- Average: 89.2% as of April 2020
- Dean's List Standing (Sept. 2019 - Apr. 2020)

Activities

UBC Launch Pad

BACKEND DEVELOPER

October 2019 - April 2020

- Fixed bugs in the rocket2 platform – an in-house Slack project management bot
- Created **Unit Tests** and contributed to the development of the API in **Flask (Python)**
- Redesigned infrastructure to help accommodate complex requests towards the **Slack Chatbot API**