NG ZHE KAI

Entry-Level Software Engineer

(+60) 18-238 1600
ngzhekai@outlook.com
linkedin.com/zhe-kai-ng/

EXPERIENCE

Fusionex Group, Selangor — *DevOps Junior Intern*

MAY 2022 - AUGUST 2022

- Create services pod by deploying YAML into the Kubernetes Engine
- Familiarize with Google Cloud Platform, Docker and Kubernetes
- Took charge of Virtual Machine Creation on Microsoft Hyper-V
- Perform R&D on new tools and package them into Docker Image and provide Documentation

GB Academy, Johor — *Frontdesk Receptionist*

OCTOBER 2019 - NOVEMBER 2019

- Communicate with clients via walk-in or phone reservation
- Entered clients' information into the system
- Ensured client details are keyed in the system accordingly

Apostrophe Marketing Communications, KL — *Intern*

AUGUST 2019 - SEPTEMBER 2019

- Scout and Plan for Event Space
- Communicate with clients regarding upcoming events
- Replied to client emails and requests

EDUCATION

Multimedia University, Melaka — *Bachelor of Information Technology (HONS) Data Communications and Networking*

APRIL 2020 - JULY 2023

- Last Trimester Grade Point Average (GPA): 3.87
- Cumulative Grade Point Average (CGPA) of 3.83/4.00
- Dean's List 5 long semesters
- Extra-Curriculum Activities (Top 3):
    - ITSociety MMU Melaka - Marketing Team
    - MMU Career Fair 2022 - Technical Team
    - Student Representative for Term 2021/2022

TECH SKILLS

DevOps
Version Control (Git), GitHub Actions, Shell scripting, AWS EC2, GCP Compute Engine, Microsoft Hyper-V

Frontend/Backend Dev
Reactjs, Nodejs, Next.js, PostgreSQL, FastAPI, Alembic, Chakra UI, Vercel

Mobile Dev
React Native, Nodejs, Expo, SQLite

Network Engineer
Cisco - CCNA, Routing, Switching, VLAN, LAN/WAN

Programming Languages
C/C++, Python, Java, Javascript

SOFT SKILLS

Time Management

Independent

Team Player

Adaptability

Problem-Solving

Leadership

Communication

Collaborative

Cisco Networking Academy (MMU), Melaka — *Cisco Certified Network Associate*

NOVEMBER 2021 - OCTOBER 2022

- CCNAv7: Enterprise Networking, Security, and Automation (ENSA)
- CCNAv7: Switching, Routing, and Wireless Essential (SRWE)
- CCNAv7: Introduction to Networks (ITN)
- Awarded with Letters of Merit

Curtin University, Sarawak — *Foundation Studies (Engineering and Science Stream)*

DECEMBER 2019 - FEBRUARY 2020

- Course Weighted Average (CWA) of 83.00/100
- High Distinction (HD) in units: Engineering Mathematics, Physics for Engineers, and Programming in C++

RECENT PROJECTS (TOP 4)

Web Developer Portfolio (Webpage) — *Personal work*

Personal portfolio webpage build on *Next.js* framework with *React*, *Three.js* animation library, and *Chakra UI* reusable UI components. Deployment using *Vercel*. To showcase my works, achievements, and to provide insights about myself.

Tech stack: *React*, *Next.js*, *Three.js*, *Nodejs*, *Chakra UI*, *Vercel*, *Git*

Link: *https://ngzhekai.vercel.app/*

Driver's Drowsiness Detection IoT — *Schoolwork*

Final Year Project: An IoT-based detection system that provides audio alerts when drowsiness is detected from the camera.

Platform: *Debian 11 (bullseye)* on Raspberry Pi (64-bit)

Tech stack: *OpenCV*, *dlib*, *YOLOv5*, *PyTorch Hub*, *Roboflow*, *Google Colab*, *Python*, *Git*

PomoTimer App— *Personal work*

Cross platform based native mobile app built on *React Native* UI framework with *Expo* development toolkit.

Tech stack: *React Native*, *Expo*, *SQLite*, *Nodejs*, *Git*

Repo: *https://github.com/ngzhekai/Pomodoro-App*

FastAPI Social Media Minimal Backend — *Personal work*

Builds API using *FastAPI* backend server with CRUD functions, *Pydantic* for data validation, and *PostgreSQL* database. Scheme version control with *Alembic* and ORM instead of SQL script, leveraging *SQLAlchemy*. Authentication implemented based on *JWT* and *OAuth2* security.

Tech stack: *FastAPI*, *PostgreSQL*, *Render* (PaaS), *Alembic*, *SQLAlchemy*

Link: *FastAPI Social Media Minimal Backend*

*may take some time to load (free-tier cloud hosting)