NG Yan Ho, Rico

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Experience

Innovation & Technical Lead / Big Boss Taxi Co. Ltd

Jul 2024 - Present, Hong Kong

- gathered user and functional requirements from various stakeholders to help build a taxi fleet
- issued letters on behalf of the company to Legco members and government officials to urge them pushing the agenda regarding the application of smart meters for enhancing the taxi service in Hong Kong
- liaised with multiple technical partners to facilitate the integration amongst IoT devices and softwares.

Technical Manager / CTBus Limited and NOAA Limited

Dec 2023 - Present, Hong Kong

- completed the Technology Voucher Programme applications of 4 companies
- liaised with multiple software vendors for the functional requirements and technical specifications of the Bobo App
- designed the tendering procedure for selecting the software vendor and reported to the board of directors
- participate in the software development of the fleet management platform (backend language: Go)
- supervise and participate in the development of the Bobo App (Backend: PHP; Frontend: Angular)

Data Analytics Associate Manager/ PICO Global Services Ltd.

May 2023 - Jan 2024, Hong Kong

As a data analyst, I have:-

- collected data from multiple data sources via web crawling and API query
- cleansed and analyzed the data with Pandas and Python
- visualized the data with Power BI and Seaborn
- built machine learning models for user-sponsor matching, audience segmentation
- adopted machine learning algorithms to conduct feature important analysis and correlation analysis for further business insights
- created and presented data reports for external clients and internal frontline staffs
- switched to the freelance contract since October 2023

Senior Software Engineer/ Beta Labs, Lane Crawford Joyce Group

As a backend engineer, I have:-

- developed a microservice for authentication for the multi-tenant system in the future
- developed serverless functions to automate regularly database updates which reduces the lead time from 4 hours to 3 minutes
- worked with the frontend developer, product manager and architect to develop an internal sales performance dashboard
- developed a GraphQL endpoint for the dashboard
- maintained a python FastAPI backend service for the customer data platform
- **Technologies**: Python, Typescript, SQL, FastAPI, Microsoft Azure, Node.js, Nest.js, Serverless Framework, Jest, Serverless GraphQL, Prisma, Jira

Senior Software Engineer/ Tree3 Health

Sep 2021 - Aug 2022, Hong Kong

As a backend engineer, I have:-

- migrated the monolithic system to a SOA-styled system with containerized applications and standardized and implemented CI/CD pipelines for faster iterations
- designed the software architecture of the core system
- liaised with a variety of stakeholders to clarify functional requirements and drafted functional requirements and corresponding system requirements
- designed and developed containerized applications based upon the requirements aforementioned
- developed and maintained a portal that enables practitioners to conduct medication consultations and generate medical documents
- developed and maintained services that connect to third party APIs to facilitate payment, prescription and logistics
- **Technologies:** Python (FastAPI), HTML5, CSS3, Javascript ES6, Node.js, Google Cloud Platform, Github Actions, Docker, Cloud Build, Cloud Run, Cloud Scheduler, Cloud Functions, PostgresQL, MongoDB, Pandas, GraphQL, RESTful APIs, Express.js, Sendgrid API, Stripe API, Firestore, Firebase API, TDD

Senior Full Stack Developer/ OnTheList

Mar 2021 - Sep 2021, Hong Kong

As a backend engineer, I have:-

- developed a gatekeeping app that implements quota for customers
- established a pipeline for CI/CD
- liaised with third party vendors and technical consultancies
- coordinated with other teams to translate business requirements into technical specs
- provided technical advice to other teams so as to estimate the timeline and technical feasibilities of various e-commerce projects
- **Technologies**: Nodejs, Express, Shopify API, GraphQL, Docker,

Bitbucket, AWS DocumentDB, AWS Lambda, AWS ECS, React.js

Project Officer - IT / Lingnan University

Jan 2020 - Mar 2021, Hong Kong

- developed and maintained the official website of the project
- consolidated functional requirements for the vendor to develop the Social Enterprise Intelligent Hub (SEI Hub)
- developed ETL pipelines for the promotional work of the SEI Hub
- **Technologies:** Python, HTML5, CSS3, Javascript ES6, Pandas, Plotly, Google Colab
- Javascript, HTML5, CSS3, InfluxDB, Grafana

Education

University of Bath / MSc in Artificial Intelligence

Sep 2020 - present

Xccelerate / Data Science and Machine Learning Immersive Bootcamp

Oct 2018 - Feb 2019

Lingnan University / BA (Hons) in Chinese

Sep 2013 - May 2017