Rex Low

ENGINEERING MANAGER

Kuala Lumpur, Malaysia

☐ (+60) 11-25571574 | ✉ qiweilow950823@gmail.com | ⌨ rexlow | in rexlow

Summary

As an engineering manager with a focus on FinTech clients, I have a track record of effectively leading teams of 20+ developers. I excel in discussing infrastructure needs and managing project risks and expectations, ensuring smooth project delivery. With a strong background in software engineering and project management, I am able to effectively communicate with stakeholders at all levels and deliver solutions that meet business needs.

Skills

Tools and Languages	Go, Python, TypeScript, NoSQL, Triton
Technologies / Framework	OpenCV, Git, React, React Native, Redux, VueJS, Mongo, GraphQL, Kubernetes, Docker
Cloud Provider	Alibaba Cloud, Google Cloud, Huawei Cloud
Communication	English, Chinese, Malay

Work Experience

Revenue Monster SDN. BHD.   *Kuala Lumpur, Malaysia*

HEAD OF TECHNOLGY   *Mar. 2022 - Present*

- Managing the tech team of over 20 developers across 6 companies in the SuperApp Group.
- Obtained **Payment Card Industry Data Security Standard (PCI DSS) Level 1** (highest) certification for the company.
- Facilitate the efficient and prompt provision of IT services to bolster business operations.
- Provide expert guidance to clients regarding their infrastructure and deployment strategies.
- Establish a top-performing IT Operations team, impart comprehensive training to team members, and deliver effective leadership.
- Collaborate closely with the **Axiata Group** to support the development of their Boost Biz eWallet.
- Worked with **Genting Group** in rearchitect and revamping all of their legacy systems (themepark, hotel, OTA, B2B, B2C) into a API Gateway managed based system, powered by Golang and Kubernetes.
- Accountable for most of the deployment and compliance operations in the company.

TEAM LEAD, MACHINE LEARNING   *Apr. 2021 - Feb. 2022*

- Lead, manage and motivate a team of 3-4 members.
- Liaise with the business team to convert the business requirements to codes
- Orchestrate, automate, and manages the company's ML infrastructure in the cloud(AliCloud & GCP)
- Optimize the team development experience by deploying open-sourced tools such as:
  – KubeSphere, Grafana, Elastic Stack, ClearML, Label Studio
- Introduced a tamper verification module on the eKYC system. Our multi-staged deep learning classifier managed to identify tamper traces with a false positive rate of just 2%.
- Developed an AI-assisted item filtering system for **alacarte.my**. Drastically improved the merchant support team's work efficiency by auto approving legitimate menu item.
- Partnered with the Malaysia Government for the **eMM2H.com** project. Enabling speedy MM2H enrolment for high worth individual around the world and ensuring all transactions are authentic and correct with the use of blockchain.

SENIOR SOFTWARE ENGINEER, MACHINE LEARNING   *Jul. 2020 - Mar. 2021*

- Spearheading the in-house identity verification (eKYC) system to enhance merchant onboarding experience with the following components:
  – Highly accurate MyKad detector with 23 landmarks.
  – Optical Character Recognition tailored to MyKad dataset.
  – Lightweight liveness verification JS SDK. Powered by Web Assembly.
  – Face verification module.
  – Focusing on accuracy, security, high-availability, fault tolerance, and auto-scaling.
- Lead and developed Antenna, a fraud detection service for RM Payment System.
- Assist the back-end team with transaction data crunching and analytic tasks.

ASSOCIATE AI & IoT DEVELOPER   *Feb. 2019 - Jun. 2020*

- Responsible for building a payment analytic dashboard using Go, ELK stack and GRPC.
- Developed an Automated Document Retrieval System for Cooper Vision Group using Tesseract and Fuzzy techniques.
- Developed a Digital Experience mobile app to illustrate digital banking experience for China Construction Bank (CCB)
  – React Native, Golang

AI DEVELOPER (INTERN)   *Sept. 2019 - Feb. 2019*

- Developed Automated License Plate Recognition System (ALPR) for WeChat Pay Malaysia
- Developed Python SDK for Revenue Monster API.
- Conduct research on face recognition methodologies and build prototypes for demo purposes.

Projects

deepSorter
SORT ANY OBJECT OR ARRAY REGARDLESS OF NUMBER OF LAYERS *Jun. 2021*
- deepSorter is made to make my life easier dealing with payment signature generation work in my company.
- Link to project

Deep Learning Powered IoT Integrated TrashBot
AUTOMATE RECYCLING WITH AI & ROBOTICS *Dec. 2017*
- Realizing the issue with waste management is largely on the human's ethic and the most optimal solution would be automating the recycling flow.
- A prototype is built with Lego EV3, multiple hardware sensors and the following tech stacks
  – Python, OpenCV, Tensorflow, Google Cloud
- Participated on several competition and won a good award.
- Link to video

IoT Integrated Vending Machine
CASHLESS VENDING MACHINE *May. 2017*
- The idea was to validate a cashless shopping experience with QR Code and eWallet.
- The idea eventually came to reality in 2019, as Malaysians are rapidly adapting to eWallet lifestyle.
- A prototype is built with Arduino, and the following tech stacks
  – C++, React Native
- Link to video

Presentation

APU Data Science Week 2019
Kuala Lumpur, Malaysia
PRESENTER FOR <AUTOMATE INTELLIGENCE AND SCALE IMPACT IN FINTECH WITH AI> *Sept. 2019*
- Introduced how the AI team in Revenue Monster incorporate deep learning and computer vision in the business.
- Introduced how to scale and deploy a machine learning systems in a production environment.

HELP University AI Club Annual Event
Kuala Lumpur, Malaysia
PRESENTER FOR <VARIOUS USES OF ARTIFICIAL INTELLIGENCE IN THE CORPORATE WORLD> *Mar. 2019*
- Introduce and showcase various AI projects developed in the company to students of HELP university

Writing

The unsung metric: Matthews Correlation Coefficient
MEDIUM *Apr. 2021*
- Link to article

Deepeye: A surveillance system using deep learning for intruder detection in smarthome remote app
SCOPUS, ELSEVIER; IJATCSE, WORLD ACADEMY OF RESEARCH IN SCIENCE AND ENGINEERING *Oct. 2020*
- Link to article

Education

University Teknikal Malaysia Melaka
Malacca, Malaysia
B.S. IN COMPUTER SCIENCE, MAJOR IN ARTIFICIAL INTELLIGENCE *Sept. 2015 - Dec. 2019*
- Studied subjects related to Artificial Intelligence including neural network, statistics, evolutionary computing, etc,.
- Achieved a CGPA of 3.83