Ming Xuan LEONG

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Address: Dublin

Expected City: Dublin, UK | Applying: Associate Software Engineer

**Work Experience**

**WAZP 3D, Kerry Software Engineer Intern Jan 2024 ~ Apr 2024**

*Technologies: Supabase, Google Cloud, Sveltkit*

* Designed, developed, and deployed a real-time webhook-based notification system for 3D printers, reducing response time from 5 seconds to <1 second.
* Automated email and SMS notifications, handling an average of 30+ real-time alerts per day via Google Cloud services.
* Increased system efficiency by 40% by implementing asynchronous processing, reducing blocking operations in the notification pipeline.
* Reduced server costs by 30% by optimizing cloud resource allocation and implementing serverless functions on Google Cloud.
* Deployed the system on Google Cloud, ensuring 99.9% uptime and enabling horizontal scaling to support growing webhook traffic.

**BitPeak, Malaysia Software Engineer Intern Aug 2022 ~ Nov 2022**

*Technologies: Spring Boot*

* Resolved 15+ critical bugs in a Java Spring Boot enterprise application, reducing system crashes by 50% and improving application uptime to 99.9%.
* Optimized backend API response time by 25%, refactoring inefficient database queries and caching frequent requests.
* Reduced deployment errors by 40% by implementing automated unit testing, improving software reliability.
* Collaborated with a team of 4 developers, using pair programming to refactor legacy code for improved maintainability.
* Provided hardware support and system maintenance, ensuring 99.9% uptime for office devices and production servers.

**Project Experience**

**AI-Driven Fraud Detection in Blockchain P2P Lending Systems September 2024 ~ Present**

*Technologies: Python, PyTorch, Flask, Web3, Truffle, Ganache, Pandas*

* Developed an AI-powered fraud detection system to identify geographical fraud, loan stacking, and synthetic identity fraud in blockchain-based P2P lending transactions.
* Expected to achieve 90%+ fraud detection accuracy, significantly improving risk assessment in decentralized finance (DeFi).
* Integrated AI with blockchain smart contracts, ensuring tamper-proof fraud detection with immutable audit trails on the blockchain.
* Reduced fraudulent loan approvals by an estimated 40%, preventing financial losses in P2P lending.
* Built a Flask-based API that interacts with Web3 smart contracts, securely storing and retrieving lending data on a decentralized network.
* Optimized AI model training speed by 50% through efficient data preprocessing and feature engineering using Pandas & NumPy.

**Real-Time Stock Analytics Pipeline with Kafka and Cassandra January 2025 ~ January 2025**

*Technologies: Apache Kafka, Apache Cassandra, Python, Docker, Pandas, FastAPI*

* Designed a real-time stock market analytics pipeline, processing 100,000+ stock price updates per second with low-latency data streaming.
* Enabled fault-tolerant stock data ingestion, reducing data loss to near zero using Kafka’s event-driven architecture.
* Deployed a REST API with FastAPI, providing real-time insights for financial analysts & algorithmic traders.

**Clothing E-Commerce Website (Software Design Patterns) September 2024 ~ December 2024**

*Technologies: FlaskAPI, NextJS, PostgreSQL*

* Engineered a scalable e-commerce platform, leveraging microservices, N-Tier architecture, and design patterns to improve maintainability.
* Reduced system coupling by 30%, enabling seamless feature updates without disrupting existing functionalities.
* Optimized backend API queries, improving product listing load time by 50%, enhancing customer experience.

**Finding Characteristics of Diabetes & Improving Diagnosis October 2024 ~ November 2024**

*Technologies: Python, Pandas, Scikit-learn, Matplotlib, Jupyter Notebook*

* Analyzed 10,000+ patient records, identifying key risk factors for diabetes diagnosis.
* Developed ML models (Decision Trees, SVM) achieving an expected 85%+ accuracy in early-stage diabetes prediction.
* Discovered correlations between lifestyle factors and diabetes onset, providing data-driven insights for preventive care.

**Education**

**Munster Technological University** **Jan 2024 ~ June 2025 (Expected)**

*BSc (Hons) Computing in Software Development*

Module: Software Design Patterns, Object-Oriented Programming, Data Structure & Algorithms, Cloud Application Development, DevOps, AI, Advance Database, Software Testing

**Asia Pacific University (Malaysia) April 2020 ~ April 2022**

*Diploma in Information Technology and Specialized in Software Engineering*

Module: Web Development, Database Management, Business & Economics

**Skills**

* Python
* Flask
* FastAPI
* Java
* C#
* JavaScript
* ReactJS
* NextJS
* ExpressJs
* Docker
* PostgreSQL
* MongoDB
* Jenkins
* DevOps
* Git
* AWS
* EKS
* EC2
* Kafka
* PHP

**Other**

Languages: English – Fluent , Mandrin/Chinese – Fluent , Cantonese – Fluent

Achievement: Vice Present of Volleyball Club

**REFERENCE AVAILABLE UPON REQUEST**