Resume Michael Kang

LinkedIn: https://www.linkedin.com/in/michael-k Email: xtde8in7o@relay.firefox.com

Portfolio Website: https://onepersonhere.live/

WORK EXPERIENCE

BINANCE, ML ENGINEER May 2024 – Current

- Log anomaly keyword extraction using Tensorflow, keras as well as Apache Spark, Lucene, Nutch & Solr.
- Constructed multilevel topology graph for link anomaly detection
- Logs extraction using Elasticsearch, Logstash, Kibana and Datadog.
- Fixed anomaly forecast prediction algorithm and improved efficiency on anomaly alert latency.

BINANCE, FULL STACK SOFTWARE ENGINEER

Jan 2023 - Jul 2023

Phone: +65-XXXX-XXXX

GitHub: https://github.com/onepersonhere

- Involved in front-end and back-end development of incident reporting model and algorithm platform, using React JS, NextJS and Java Spring Boot.
- Project manager and backend developer for Air Classroom app.
- Involved in designing MySQL database and maintaining Google Cloud Platform for back-end API development.

NATIONAL UNIVERSITY OF SINGAPORE (NUS), TEACHING ASSISTANT, ORBITAL 2023, ORBITAL 2024

Apr 23&24 - Aug 23&24

Primary academic advisor for 12-15 teams on Software Architecture, Software Engineering principles and practices.

NUSSU COMMIT, VICE PRESIDENT

Jun 2022 – Jun 2024

In charge of maintaining/debugging NUS computers and cloud-based virtual machines.

NUS ORBITAL 2022 (ARTEMIS), NATIONAL UNIVERSITY OF SINGAPORE

Apr 2022 – Jul 2022

- Main contributor with 200k lines of code, did Code Quality checks, automated test cases, CI/CD using custom GitHub Actions.
- NFT/Cloud-based, multi-platform, Open World RPG game.
- Hardest difficulty achieved by fulfilling extreme requirements in software engineering skills, such as Object-Oriented Programming (OOP) through game development and peer programming.
- Link (to documentation): https://tinyurl.com/2u6hww74

SIGNAL OPERATOR, SATCOMS, SINGAPORE ARMED FORCES

2019 - 2021

- Trained as Cisco Certified Network Associate (CCNA)
- Awarded best signal operator based on exemplary performance in CCNA.

EDUCATION

BACHELOR OF COMPUTING (COMPUTER SCIENCE) (HONOURS), NATIONAL UNIVERSITY OF SINGAPORE

Aug 2021 - Jun 2025

- Second Major in Quantitative Finance.
- Specialization in Artificial Intelligence
- Specialization in Networking and Distributed Systems
- Relevant courses:
 - Artificial Intelligence and Machine Learning (CS2109S),
 - Probability and Statistics (ST2334),
 - Operating Systems (CS2106),
 - Computing for Quantitative Finance (QF2103),
 - Advanced Mathematics in Quantitative Finance (QF3103),
 - Software Engineering (CS2103T),
 - Advanced Technology Attachment Programme (CP3880),
 - Computer Vision (CS4243)

AUTUMN EXCHANGE, UNIVERSITY OF OSLO

Aug 2023 - Dec 2023

- Relevant courses:
 - Natural Language Processing (IN4080),
 - Algorithms: Design and Efficiency (IN3130)

STANFORD CODE IN PLACE

Apr 2020 – Jun 2020

PERSONAL PROJECTS

@cs_notes_bot

- Telegram Bot that provides users with a cloud-based storage.
- It is based on NodeJS and JavaScript, hosted on Firebase.
- Link: https://t.me/cs_notes_bot

Stock Analyzer

- Scraped real-time financial data from Yahoo Finance & Finviz to test trading & investment strategies.
- Statistical analysis for individual stock using Python, Numpy, Pandas, Scipy.
- Generate the Mean-Variance portfolio, the efficient portfolio frontier using matplotlib together with the tangent portfolio.

- Calculates the implied volatility of stocks using the Black-Scholes-Merton formula.
- Generates the Merton-Jump-Diffusion model.

Blockchain

- Project based on JetBrain Academy's Blockchain project.
- Applied hashing, multithreading skills and serialization skills in Java.
- Link: https://github.com/onepersonhere/Blockchain

visual.ai

- Project made for TikTok TechJam 2024
- Visualizes Deep Neural Network models during training.
- Link: https://github.com/visual-ai-org/visual-ai

SKILLS SUMMARY

Programming Languages

- (Expert) Java, Python
- (Intermediate) JavaScript, C++
- (Beginner) Bash/Shell, C, Assembly

Frameworks

• (Intermediate) JavaFX, Spring Boot, Swing, Flask, NodeJS, NextJS

Testing

• (Intermediate) JUnit

Database

(Advanced) Firebase, Google Cloud, MySQL

HACKATHONS

NUS-NCS Innovation Challenge, NUS Business Analytics Centre

Mar 2024

- Led the team in creating a chat bot based on ChatGPT's OpenAI model using Natural Language Processing (NLP) and Machine Learning (ML) approaches.
- Backend was done using Python, Frontend was done using Flask.
- Data processing and annotation on both real-time and static data using Python.

SNOMED CT Entity Linking Challenge

Feb 2024

Link spans of text in clinical notes to concepts in the SNOMED CT clinical terminology.

9th Engineering Innovation Challenge

- Finalist
- Main engineer for computer vision object identification for the leaves and tracks its growth using opency.
- Code: https://github.com/onepersonhere/AgriVision_CV

WelcomeCTF, NUS Greyhats

Jul 2022

• First Place among 133 teams.