

JORDAN KANG

NUS Computer
Science Graduate



Contact

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[Bold Profile](#)

Skills

Programming Languages

- Java
- Python
- Javascript
- C
- R

• Dart

Frameworks/Libraries

- PyTorch

Innovative and analytical problem-solver with keen interest in artificial intelligence and machine learning. Well-versed in Python programming and neural networks. Committed to leveraging AI technologies to drive impactful solutions and optimise processes.

Experience

2022-08 -
2025-07

AI Software Engineer Intern

paymentnapp Inc., Singapore

- Developed a blog generation pipeline leveraging web scraping and Retrieval-Augmented Generation (RAG), while evaluating various open and closed source LLMs, to produce structured content based on identified trending topics. Reduced content creation time by 97% (from ~3 hours to 5 minutes per blog), enabling scalable production of up to 12 complete blogs per hour.
- Fine-tuned Stable Diffusion models across various personas to support targeted downstream applications.
- Designed a novel algorithm and built a virtual simulation to modernise and replace CJ Logistics' legacy parcel singulation system, increasing throughput by 30%.
- Collaborated with DHL to develop a package recognition, tracking and mobile alert system, applying edge devices, computer vision, as well as OCR and barcode recognition tools to enhance courier efficiency in package handling.

2023-07 -
2024-11

Tutor

Private Tuition, Singapore

- Tutored primary and secondary school students in Mathematics and English subjects, improving their grades by at most 4 grades in a semester.

Education

2022-05 -
Current

Bachelor of Computing: Computer Science

National University of Singapore - Singapore

- Coursework: Data Structures and Algorithms,

- TensorFlow
- OpenCV
- JavaFx

Tools

- Git
- Kafka
- ZeroMQ

Databases

- PostgreSQL
- MongoDB
- Redis
- Firestore

AI/ML Concepts

- Retrieval Augmented Generation(RAG)
- Natural Language Processing(NLP)
- Computer Vision and Pattern Recognition
- Neural Networks and Deep Learning

Websites, Portfolios, Profiles

- <https://github.com/jordankanghm>
- www.linkedin.com/in/jordan-kang

Machine Learning, Information Security, Software Engineering, Database Systems

Projects

Image Classification Model, *Creator*, 2024-05 - 2024-07

- Trained an image classification model using the MNIST dataset comprising handwritten digits.
- Utilised a dataset consisting of 60,000 training and 10,000 testing images and labels.
- Conducted data preprocessing, training and testing and hyperparameter tuning of multiple models.

Sentiment Analysis Model, *Creator*, 2024-05 - 2024-07

- Trained a sentiment analysis model using user reviews for Amazon products.
- Utilised a dataset consisting of 34,660 reviews, with reviews ranging from 1 star to 5 stars.
- Trained the model to predict whether a given review has a positive or negative connotation.
- Conducted data preprocessing, training, testing, and hyperparameter tuning of multiple models.

Stock Price Prediction Model, *Creator*, 2024-05 - 2024-07

- Trained a stock price prediction model using Apple's stock price data in 2024.
- Utilised a dataset consisting of 250 data points.
- Conducted data preprocessing, training and testing of multiple models.

Application to streamline Volunteer Event

Management, *Co-developer*, 2023-09 - 2023-11

- Developed a desktop application in a team of 5, which allows volunteer coordinators to organize volunteers and volunteering events efficiently by integrating the efficiency of a Command Line Interface (CLI) with the advantages of a Graphical User Interface (GUI).
- Designed the front-end using JavaFx, seamlessly organising user interactions for enhanced engagement.

- Implemented a local database in JSON format, optimizing data storage and retrieval directly from the user's hard drive for persistent data management.
- Utilised Codecov to ensure test coverage for the codebase.

Chatbot Application for Task Management, *Creator*, 2023-08 - 2023-09

- Built a chatbot application that helps users keep track of tasks and update them seamlessly.
- Enabled users to insert several types of tasks: tasks with no deadline, tasks with a deadline, and tasks occurring over a specific duration.
- Granted users the ability to update the deadlines of tasks if needed.
- Allowed users to mark tasks that have been completed and delete them when no longer necessary.
- Allowed users to search for tasks using keywords.

Web Application to recommend food places to users, *Co-developer*, 2023-05 - 2023-07

- Created a web application in a team of 2 for users to find food places near their current location, and filter search results based on different factors, such as cuisine type, price range, dietary restrictions, distance, etc.
- Enabled users to scan through other users' reviews and ratings for a food place to know if it is good or not.
- Recommended food places users might enjoy based on their search history.
- Allowed users to create lists of food places they wish to visit.
- Educated users about ongoing food trends and food events.

LEADERSHIP EXPERIENCE

Choir Section Leader, *National Junior College*, 2018-06 - 2019-06

- Ensured quality of performance for members in the section via leading sectional vocal warm-ups,

going through musical pieces as a section, and analysing areas to improve from group practices.

- Upheld performance standards for school and public performances, as well as for local and overseas choir exchanges.

Choir Section Leader, *Anglo-Chinese School(Barker Road)*, 2016-01 - 2017-12

- Ensured quality of performance for members in the section via leading sectional vocal warm-ups, going through musical pieces as a section, and analysing areas to improve from group practices.
- Upheld performance standards for school and public performances, as well as for the biennial Singapore Youth Festival(SYF).