Wong Yeow Kang

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE   Aug 2023 - May 2027

Bachelor of Science in Business Analytics (Honours)

- Grade Point Average: 4.42/5.0
- Activities: Tembusu College, Google Developer Student Club, NUS FinTech Society
- NUS Overseas Colleges AY25/26 S1 - Silicon Valley
- Relevant Coursework: Programming Methodology in Python and Java, Data Structures and Algorithms, Application Systems Development for Business Analytics, Feature Engineering for Machine Learning, Data Analytics and Visualisation in R, Advanced Calculus for Computing, Linear Algebra, Machine Learning, Statistics

PROJECTS

SafeHaven, Personal Project (https://safehavenwyk.netlify.app/)   Dec 2024 - Present

Building a mental wellness app utilising AI to offer a space for individuals to express feelings and build conversational skills.

- Designing a dynamic and user-friendly chatbot web application to provide real-time, empathetic responses.
- Integrated a Generative Language API to fetch bot responses, dynamically updating the conversation based on user input and asynchronous JavaScript techniques for optimal responses.
- Implemented a responsive design with HTML, CSS and media queries to ensure an optimal user experience.
- Engineering an NLP pipeline for sentiment analysis and conversational flow, allowing context-aware responses from the AI.

Project Sabai, Data Analytics Team Member   Aug 2024 - Dec 2024

Developed web application database to manage patient data for healthcare initiative in rural Cambodia.

- Devised a database for a web application to track and store patient and doctor data for medical missions with PostgreSQL and PGAdmin4.
- Implemented backend functionality using Django Rest Framework, leveraging Django models to interact with the PostgreSQL database without the need for raw SQL queries.
- Ensured efficiency of data storage and retrieval, enhancing the medical team's ability to manage patient records and treatment information effectively.

MedWiz - NUS HealthHack 2024, Team Member   Feb 2024

Making medical jargon more comprehensive and inclusive through machine learning.

- Created a specialized model tailored to medical terminology, enabling the extraction of key concepts and domain-specific language for the translation or simplification of medical reports.
- Incorporated the OpenAI API for abstractive summarization with Python and Flask, producing concise yet precise explanations of medical conditions.
- Developed a user-friendly frontend interface using HTML and CSS, ensuring interaction and accessibility for users.

WORK EXPERIENCE

MARIBANK *Data Analyst Intern (Consumer & SME)*   Jan 2025 - Present

- Analysing month-over-month changes in SMS notification engagements across various types using MySQL, providing data-driven insights to optimise communication strategies for the bank.
- Conducting frontend tracking with Google Tag Manager to monitor user behaviour and identify drop-off points in the customer onboarding process, contributing to improved user retention and experience.
- Collaborating with cross-functional teams to implement data collecting strategies and improve the bank's digital onboarding.

NUS COMPUTING *Teaching Assistant (CS1010A Programming Methodology)*   Aug 2024 - Dec 2024

- Taught programming concepts in Python (including Data Structures, Searching and Sorting, OOP).
- Facilitated weekly tutorials and evaluation of students' assignments.
- Achieved an 83% distinction rate for the students in class through consistent and effective guidance.

CO-CURRICULAR ACTIVITIES

NUS FINTECH SOCIETY, Machine Learning Analyst Trainee   Aug 2024 - Dec 2024

- Utilised Python libraries such as Pandas and Seaborn for data analytics and visualization.

- Gained hands-on experience with data preprocessing, feature engineering, and building machine learning pipelines using Scikit-learn through labs.

GOOGLE DEVELOPER STUDENT CLUB (NUS), Business Associate   Aug 2023 - May 2024
- Collaborated with a multidisciplinary team of developers and UI/UX designers to create Project Ignite, leveraging technology to streamline volunteer recruitment and management processes for non-profit startups, driving social impact and community engagement.
- Established application requirements and features for the Volunteer Management System (VMS).
- Designed the User-Profile Subsystem for the Volunteer Management System (VMS) platform, ensuring a seamless user experience for both non-profit organizations and volunteers.

TECHNICAL SKILLS AND PROFESSIONAL CERTIFICATIONS
- Written & Spoken Languages: English | Mandarin
- Programming Languages: Python | Java | R | SQL | Javascript
- Design and Front-End: ReactJS, NextJS, HTML, CSS, Tailwind, Figma, Canva
- Back-End Web Development: Flask, Node.js
- Cloud and Database Systems: MySQL, PostgreSQL, MongoDB, Firebase, Git
- Professional Certifications: CS50AI Introduction to AI with Python | Google Advanced Data Analytics Certification | AWS Certified Cloud Practitioner Essentials