Wong Yeow Kang

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I am a self-motivated individual with a strong foundation in programming and business analytics, eager to transition into Quantitative Analytics or Software Engineering. Passionate about solving complex problems, I aim to design scalable solutions that drive business success. As a quick learner, I adapt well to different languages and frameworks. Outside of work, I enjoy traveling and music, which fuel my creativity and growth.

EDUCATION

National University of Singapore   **Aug 2023 – Present**

Bachelor of Science (Honors) in Business Analytics, Major in Statistics

- Cumulative GPA: 4.42/5.0
- Activities: Tembusu College, Google Developer Student Club, NUS FinTech Society
- Relevant Coursework: Statistics, Linear Algebra for Computing, Advanced Calculus, Data Analytics and Visualization, Programming Methodology (Python and Java), Data Structures and Algorithms, Feature Engineering for Machine Learning, Application Systems Development

PROJECTS

GitGroove: Digital Audio Workstation Version Control (GitHub)   **Jun 2025 – Present**

- Developing a full-stack web application simulating GitHub for musicians, integrating a custom version control system (branching, merging, commit history) for collaborative audio projects.
- Designing and implementing a scalable backend using Node.js, Express and PostgreSQL, providing robust user authentication, project management and social networking functionalities.

Nomster: Social Food Recommendation Web Application (GitHub)   **Jan 2025 – May 2025**

- Built a full-stack food discovery platform using Vue.js, PrimeVue and Firebase, enabling users to explore Singapore's culinary scene through dish-level reviews and personalized recommendations.
- Integrated Google Maps API for an interactive, location-based restaurant recommendation interface with real-time filters.
- Built core social media features such as real-time activity feed, and follow/unfollow functionalities using Firebase Firestore and Authentication , fostering a community-driven dining experience.

SpotiFind: Music Recommendation Program (GitHub)   **Jan 2025 – May 2025**

- Developed a machine learning-based recommendation system leveraging acoustic features, harmonic pattern analysis and BERT-based sentiment analysis for contextual relevance in lyrics.
- Engineered audio-based data for over 250,000 songs, applying K-means clustering to uncover genre groupings.
- Applied collaborative filtering and content-based models, analyzing spectrogram data with cosine similarity to recommend tracks with similar frequency distributions.

WORK EXPERIENCE

Data Analyst Intern (Consumer & SME), MariBank   **Jan 2025 – Apr 2025**

- Analyzed month-over-month changes in SMS notification engagements using MySQL and Microsoft Excel, providing data-driven insights that reduced operational costs by 73% from December'24 to January'25 for the bank.
- Conducted frontend tracking by creating user tag attributes for different banking customers to monitor user behavior and identify drop-off points in the customer onboarding process, contributing to improved onboarding rate.
- Initiated the automation of monthly analysis and email notification delegation using Google Apps Script (JavaScript), eliminating the need for manual data updates, and reducing irrelevant email spam by over 40%.

Undergraduate Teaching Assistant (Digital Platforms for Business), NUS Computing   **Jan 2025 – Apr 2025**

- Taught core concepts of digital platforms economics, including network effects, monetization models and platform metrics.
- Supported students in applying business fundamentals (e.g financial statement analysis and customer lifetime value) to platform-based business models.
- Led discussions and provided feedback on case studies, helping students critically evaluate and design digital platforms.

Undergraduate Teaching Assistant (Programming Methodology), NUS Computing   **Aug 2024 – Dec 2024**

- Taught foundational programming concepts in Python, including Data Structures and Algorithms, Sorting and OOP.

- Led weekly tutorial sessions for a class of 12 students, providing hands on guidance and evaluation of their assignments.
- Achieved an 80% distinction rate for my class by delivering targeted support and actively engaging students in revision exercises.

SKILLS & CERTIFICATIONS

- **Written and Spoken Languages:** English, Mandarin
- **Programming Languages:** Python, Java, R, SQL, JavaScript, TypeScript
- **Web Development:** HTML, CSS, Vue.js, React.js, Tailwind CSS, Node.js, Express.js, FASTAPI, Figma, Canva
- **Cloud and Database Systems:** MySQL, Firebase, Git
- **Certifications:** Introduction to AI with Python, Google Advanced Data Analytics, AWS Certified Cloud Practitioner Essentials