ALAN WONG KUAN MING

97293375 • *alan_wkm@outlook.com* • *linkedin.com/in/alan-wong99/*

EXPERIENCE

JUL 2023 – DEC 2023
AI Full Stack Developer | SAP | Singapore
- Designed and deployed Python-based Cloud Foundry worker application to automate database health monitoring by performing periodic PostgreSQL queries, eliminating manual health checks and reducing operational effort by 80-90%.
- Authored manifest files and configured worker jobs, eliminating manual checks and ensuring continuous health tracking, ensuring scalable, repeatable worker deployments across environments.
- Integrated Cloud Foundry Loggregator Firehouse metrics with Slack webhook alerts, enabling real-time alerts on container-level metrics (CPU, memory, disk and network usage).

SEP 2018 – FEB 2019
Business Intelligence Analyst | DBS Bank | Singapore
- Reduced manual data cleaning and accelerated data preparation by 50% by creating Macros for Excel in VBA.
- Developed dashboard to visualize nearby ATMs within user's vicinity using R Studio and internal API toolkits.

EDUCATION

AUG 2021 – MAY 2025
Bachelor of Computing (Hons) in Computer Science | Nanyang Technological University | Singapore
- **Junior Common Room Committee** – Social Director
  - Managed, planned and conducted over 12 events for over 300 hall residents within academic year.
- **NTU CAC Social** – Vice-Chairperson
  - Implemented community-building events for over 500 participants across 33 various member clubs.

PROJECTS

AUG 2024 – MAY 2025
Final Year Project - Unsupervised Action Segmentation and Scene Understanding in Diverse Instructional Videos
- Implemented ResNet50 for frame clustering techniques as well as OpenAI's faster-whisper for audio transcription.
- Adopted Google Gemini multimodal large language model to combine both visual and audio cues.
- Flask-based web application for users to upload videos and JSON output with timestamps, descriptions and transcriptions correctly and neatly structured.

SKILLS & CERTIFICATIONS

Languages: Bilingual in English and Mandarin, conversant in Japanese
Digital Skills: Python, Flask, PostgreSQL, Data Analytics, Cloud Foundry, JavaScript, React, R, SQL
Certifications:
- Google Data Analytics Professional Certificate
- Google IT Automation with Python Professional Certificate
- Google AI Essentials
- Neural Network and Deep Learning – DeepLearning.AI
- Emergent Leadership – NTU Student Leadership