SONG, CHANWOO

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1. Education

Nanyang Technological University (NTU) **Sep 2025 - May 2028**
- Bachelor of Computing in Data Science and Artificial Intelligence
- MOE Tuition Grant Holder

The University of Hong Kong (HKU) **Sep 2022 - May 2023**
Relevant Coursework: Introduction to Data Science, Computer Programming (I, II)

2. Work Experience

Villion / Co-Founder **Mar 2026 - Current**
- **Architected** and **deployed** a multi-tenant FastAPI backend on GCP powering GEO analytics and automation workflows across 5+ client organizations
- **Designed** a Graph-RAG retrieval system over heterogeneous client and operational data using Python and Qdrant, cutting recurring research and reporting workflows by ~1.5 hours per report
- **Built** an AI-assisted sales automation pipeline for lead sourcing, qualification, and outreach, **contributing** to over **US$70K in cumulative revenue**

Axiom Corporation / DBA Intern **May 2023 - Jul 2023**
- **Monitored** and **diagnosed** production database performance across AWS-hosted e-commerce and financial-services systems, identifying query and configuration bottlenecks
- **Optimised** SQL queries, indexing strategies, and database configurations, **reducing** average query response latency by **19%**

ACME Academy / Teaching Assistant (TA) **Jun 2023 - Aug 2023**
- Tracked and analyzed SAT performance data across 25+ students to identify underperforming areas and students requiring targeted intervention
- **Automated** recurring performance reports for 25+ students using Excel/VBA, reducing manual administrative work by ~2 hours per week

Private Tutor (IB) **Nov 2022 - Current**
- **Developed** a university recommendation system for students using domain-adapted embedding models, achieving **27% higher retrieval accuracy** than a BERT baseline
- **Improved** an IB Physics HL student's semester grade from 5 to 7 through targeted problem-solving and exam preparation\
- **Created** Personalised IB Learning Platform powered by AI models.

Mandatory Service

Republic of Korea Army (21st Division) / Sniper & Surveillance Duty **Oct 2023 - Apr 2025**
- Led a 22-member squad and planned surveillance routes and operational strategies during DMZ missions

3. Skills

Languages: Python, SQL, R, C++, C
AI / Data: LangChain, Qdrant, RAG, Embedding Models
Cloud & Backend: FastAPI, GCP, AWS, Azure, Supabase, Railway, Vercel
Awards & Activities: 2nd Runner-Up at SAP AI Hackathon, Semi-Finalist in AI Rookie Competition (Top 10% among 1,000+ teams), NTU TechFest Participant