

GERALD KOH

CS Undergraduate · geraldkjk@gmail.com · Singaporean

[My LinkedIn](#) · [My Website](#)

EDUCATION

NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE

Aug '24 – May '28

Bachelor of Computing (Honours), Computer Science

(Expected)

- Freshman Year · CGPA 4.16 / 5 (Current)
- Relevant Modules: Data Structures & Algorithms, Object Oriented Design & Programming, Computer Org. & Architecture

NANYANG POLYTECHNIC

Apr '19 – Mar '22

Diploma in Information Technology, Specialisation in Artificial Intelligence

- CGPA: 3.84 / 4 · Director's List for 3 / 5 applicable semesters
- Relevant Modules: Full-Stack Development, Software Engineering, Database Management Systems, Application Security
- Online Courses: Applied Data Science with Python Specialisation (5 courses), AWS Academy Cloud Foundations

AWARDS / ACHIEVEMENTS / CERTS

- Amazon Web Services (AWS) Solutions Architect – Associate (SAA-C02)
- DigiPen Institute of Singapore Award for Best Performance in Artificial Intelligence
- Nanyang Polytechnic Director's List – 3 / 5 applicable semesters

PROFESSIONAL EXPERIENCE

GOVERNMENT TECHNOLOGY AGENCY OF SINGAPORE (GOVTECH)

Apr '21 – Jun '22

Software & Cloud Apprentice

Oct '21 – Jun '22

- Designed and developed reliable and scalable decoupled cloud-based solutions alongside incredible team members
- Implemented performant serverless event-driven microservices using the AWS Serverless Application Model (SAM)
- Researched and documented various cloud resource and operating system security posture assessment tools on its coverage gaps and strengths

Cloud & Artificial Intelligence / Machine Learning Apprentice

Apr '21 – Oct '21

- Created and deployed a fully automated machine learning pipeline on the cloud for an existing phishing email detection workflow
- Engineered a cost-effective serverless web service by chaining various AWS services, to process real-time prediction requests, reducing potential operational expenses by up to 60%
- Automated the deployment and provisioning of cloud infrastructure with Infrastructure-as-Code (IaC) tools, improving deployment time, consistency and error reduction

SKILLS

- **Software:** Python, C, C++, C#, Java, Kotlin, HTML, JavaScript, SQL
- **Languages:** Native proficiency in English, Professional working proficiency in Chinese

ACADEMIC PROJECTS

ENTERPRISE DEVELOPMENT PROJECT MODULE

Oct '20 – Feb '21

Project Title — TripPin

Role: Team Leader

- Awarded Distinction. Created an easy-to-use all-in-one web trip planner to promote tourism in Singapore.
- Responsible for the main trip planner functionality utilising MapBox's API, drag-and-drop and export-to-PDF features.

CO-CURRICULAR ACTIVITIES

NANYANG TECHNOLOGICAL UNIVERSITY STUDENT'S UNION (NTUSU)

Oct '24 – Present

Information Technology Committee (ITC) Officer · Backend Developer

- Designed and built the Prerequisite Tree feature for NTUMods, alongside two other incredible teammates.

NANYANG POLYTECHNIC ARTIFICIAL INTELLIGENCE INTEREST GROUP

Apr '19 – Apr '22

Member

- Competed and achieved Outstanding Model Performance (1st Place) in the Summer Camp 2020 Kaggle Competition.

HOBBIES & INTERESTS

- Travel and street photography, custom mechanical keyboards and hoarding vinyl collectables of various pop culture icons!

Contact me on [LinkedIn](#) or at geraldkjk@gmail.com for more information!