

DONALD KONG

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EDUCATION

National University of Singapore

Bachelor of Computing (Honours) in Computer Science, Second Major in Statistics

Singapore

Aug. 2024 – May 2026

Master of Computing in Computer Science (incoming)

Aug. 2028 – May 2029

- CAP: 4.70 / 5.0
- Focus area: Algorithms and Theory
- Enrolled in the NUS–Télécom Paris French Dual Degree Programme (FDDP)
- Relevant CS coursework: CS3231 Theory of Computation, CS3230 Design and Analysis of Algorithms, CS2040S Data Structures and Algorithms, CS1231S Discrete Structures, CS1101S Programming Methodology
- Relevant Statistics coursework: ST4234 Bayesian Statistics, ST4238 Stochastic Processes II, ST3236 Stochastic Processes I

Télécom Paris

Diplôme d'Ingénieur (FDDP, incoming)

Palaiseau, France

Sep. 2026 – Jul. 2028

- Computer science track; concentration to be confirmed

NUS High School of Mathematics and Science

NUS High School Diploma (High Distinction), Majors in Mathematics and Computer Science

Singapore

Jan. 2016 – Dec. 2021

- Additional majors in Chemistry and Physics
- Australian Informatics Olympiad Bronze Medallist (2019)

EXPERIENCE

Researcher (Intern)

May 2026 – Aug. 2026

DSO National Laboratories

Singapore

- Researching post-quantum cryptography with a focus on lattice-based problems and their concrete hardness
- Investigating open questions in lattice cryptanalysis; reproducing recent results from the literature and contributing internal analyses

Teaching Assistant, CS2040S Data Structures and Algorithms

Jan. 2026 – May 2026

National University of Singapore

Singapore

- Led weekly tutorial sessions, ran consultations, and graded assessments for the data structures and algorithms module

Teaching Assistant, CS1101S Programming Methodology

Aug. 2025 – Dec. 2025

National University of Singapore

Singapore

- Led studio sessions on functional programming (SICP-style curriculum in Source) and graded weekly assessments

Combat Engineer (Armoured)

Jan. 2022 – Jan. 2024

42 Singapore Armoured Regiment, Singapore Armed Forces

Singapore

- Completed mandatory full-time national service as a Combat Engineer (Armoured) with 42 SAR

AI Scientist (Intern)

Sep. 2021 – Dec. 2021

Pensees Systems

Singapore

- Designed and evaluated deep learning models for face recognition, face detection, and emotion recognition
- Contributed to model improvements and deployment in production computer vision pipelines

Student Researcher

Jun. 2019 – Feb. 2020

Singapore University of Technology and Design

Singapore

- Algorithmic analysis of b-Bit Minwise Hashing; characterised estimator bias as a function of set similarity, cardinality, and comparison bits
- Proposed an error-term correction to the similarity estimator with negligible runtime and memory overhead

TECHNICAL SKILLS

Languages: Python, C++, Java, TypeScript, R, SQL (Postgres)

Tools: Git, $\LaTeX$, Linux, Vim, VS Code, IntelliJ

Libraries: pandas, NumPy, scikit-learn, Matplotlib

Spoken Languages: English, Mandarin, Cantonese (all native); French (learning)