

# Nguyen Ngoc Khanh

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## EDUCATION

**Master of Science in Mathematics (Part-time, Coursework)** Aug 2023 – May 2025

*National University of Singapore*, Singapore

Relevant coursework: Graduate Analysis I, Differential Manifolds, Riemannian Geometry, Algebraic Topology, Commutative Algebra, Homological Algebra

**Bachelor of Engineering in Computer Science** Aug 2017 – May 2021

*Nanyang Technological University*, Singapore

Relevant coursework: Theory of Computation, Algorithms, Compilers

## INDEPENDENT STUDY

Selected books studied independently

**Mathematics** 2020 – 2025

- Linear Algebra: Axler - *Linear Algebra Done Right*
- Analysis: Abbott - *Understanding Analysis*, Ahlfors - *Complex Analysis* (ch 1–5), Wheeden, Zygmund - *Measure and Integral: An Introduction to Real Analysis*
- Point-Set Topology: Morris - *Topology without tears*
- Algebra: Dummit, Foote - *Abstract Algebra* (ch 1–10)
- Basic Category Theory: Bradley, Bryson, Terilla - *Topology: A Categorical Approach*

**Computer Science** 2019 – 2019

- Automata and Languages: Sipser - *Introduction to the Theory of Computation* (pt 1–1)

## PROFESSIONAL EXPERIENCE

**Senior Research Engineer I** May 2022 – Present

*A\*STAR*, Singapore

Research and develop machine learning models for speech and speech-to-text applications

**Software Engineer** May 2021 – May 2022

*Shopee Singapore*, Singapore

Maintain and develop software for distributed systems

## TECHNICAL SKILLS

Programming: Python, C, Go, Lean4 (minimal) – Typesetting:  $\text{\LaTeX}$

## LANGUAGES

English (fluent), Vietnamese (native)

## REFERENCES

References available upon request