

Naufal Hartono

COMPUTER SCIENCE UNDERGRADUATE

in Naufal Hartono ✉ naufalhartono@ieee.org 🌐 github.com/naufalhart

EDUCATION

Mar. 2026 – Jul. 2026	Semester Exchange in Informatics and Mathematics Course taken: Quantum Computing, Linear Algebra, Calculus II, Cryptography	OTH REGENSBURG, GERMANY
Oct. 2024 – Present	B.Sc. in Computer Science (CGPA: 3.740)	UNIVERSITI PUTRA MALAYSIA, MALAYSIA

RESEARCH INTEREST

Quantum computing, quantum information theory, theoretical computer science

PUBLICATIONS

INDEPENDENT PUBLISH

1. **N. Hartono**, “What does Quantum Entanglement do to Quantum Computing,” Jul. 2026, Available: <https://doi.org/10.5281/zenodo.21202071>
2. **N. Hartono**, *Telecommunication and Network Technology*. 2026. Available: <https://doi.org/10.5281/zenodo.21202180>

RESEARCH EXPERIENCE

Jul. 2026	(Independent Research) Investigation of Bell State Fidelity using IBM Quantum Hardware Executed quantum circuit simulations across configurations for 1024, 4096 and 8192 shots on both standard simulators and fake backend to benchmarks state fidelity against real quantum hardware. Authored a comprehensive article in LaTeX applying rigorous academic formatting (IMRaD structure) to present experimental data.
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TEACHING EXPERIENCE

Jan. 2026	(Volunteer) CCS3200 Discrete Structure Tutorial Conducted an intensive final exam review session for freshman students, breaking down complex theoretical topics including mathematical induction proofs, state diagrams, and graph theory.
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HONORS

Sep. 2025	Dean’s List award, 2nd Semester - Faculty of Computer Science and Information Technology, Universiti Putra Malaysia
Mar. 2026	Dean’s List award, 3rd Semester - Faculty of Computer Science and Information Technology, Universiti Putra Malaysia

MEMBERSHIP

Jun. 2025 - Present	Undergraduate Member, IEEE Computer Society
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TECHNICAL SKILLS

Programming: Java, Python

Quantum Computing: Qiskit

Scientific computing: MATLAB

Development tools: Git, L^AT_EX