

Nathaniel Wong

linkedin.com/in/natmikewong · natwong.dev

Education

STANFORD GRADUATE SCHOOL OF BUSINESS

Master of Business Administration Candidate

Stanford, CA

2026-2028

NORTHWESTERN UNIVERSITY

Bachelor/Master of Science in Computer Engineering (Magna Cum Laude, GPA 3.89)

Evanston, IL

2015-2019

- Departmental Honors (Senior of the Year); admitted to IEEE-Eta Kappa Nu; 10 Dean's List citations
- Study Abroad, ETH Zürich, Switzerland (Fall 2018) — network security, systems security, human-computer interaction
- National Residence Hall Honorary; Residential College President; VP on Residential College Board

Experience

REPUBLIC OF SINGAPORE AIR FORCE

Singapore

Department Head

2024-2026

- Independently led Aster 30 Enhancement Project end-to-end — scenario planning, technical design, and delivery of software/hardware requirements across 4-person team and external partner stakeholders — validated via successful operational trial (Mar 2026)
- Directed round-the-clock air defence operations for 30+ personnel with 100% uptime; cut headcount 17% via self-initiated structure review
- Piloted contested 5-person crew restructuring, personally leading first live shift to de-risk rollout before scaling
- Drove org-wide AI/digitalisation adoption, cutting manual paperwork 80%; unit named Best Ground-Based Air Defence Unit in RSAF (2024, 2026)
- Concurrently, Deputy Chair (Parade Safety), National Day Parade Executive Committee (2024-2025) — led safety risk assessment and incident response (150+ volunteers) for 200,000-spectator event; managed crisis communications for fatality case

Headquarters Strategy and Plans Staff, Digital Service

2022-2023

- Served as product owner for agile capability — from mid-build through design reviews and testing to on-time, on-budget delivery — working with DSO scientists on underlying research
- Managed \$50M+ portfolio of eight capital and capability development projects; restructured 50+ person department to meet mission demands
- Drove full user adoption of end-to-end network capability within one month of rollout, including onboarding; cut critical-incident response time 30%, saving multiple hours per response

Team Lead

2019-2021

- Identified recurring manual data-entry bottleneck; independently built and shipped web-based equipment-tracking visualizer — prototype in half a day, production within a week — eliminating 700 man-hours/year and running maintenance-free for 4+ years
- Led team of 12+ in delivery of precise real-time air defence mission outcomes, cutting response times 20+%
- Concurrently, Organising Secretary (Parade Operations), National Day Parade Executive Committee (2020-2021) — drove parade concept from stakeholder approval through execution, including crisis-response and COVID-19 protocols, for 800+ participants

Additional

- Singapore Armed Forces Scholarship & Public Service Commission Scholarship (2015); Public Sector Leaders Programme (2020)
- Certified Agile Scrum Master; proficient in React; VHDL/Verilog, Python, C++