Amadeus Eka Kesuma

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PROFESSIONAL SUMMARY

NUS Computer Science student (AI and Computer Security, graduating **Dec 2026**, available **Jan 2027**) who builds **LLM** applications end to end: **CyberCookie**, a multi-agent LLM pipeline (scorer, writer and reviewer agents) that has published 100+ issues unattended, and **Sentry**, an agentic scam-detection app whose deterministic engine keeps verdicts auditable. At Singapore Airlines, built AI tools on enterprise LLM infrastructure that the GRC team uses regularly.

EDUCATION

Bachelor of Computing (Honours) in Computer Science, Specialisations in Artificial Intelligence and Computer Security National University of Singapore — Aug 2023 - Dec 2026

GPA 4.1 / 5.0. Coursework: Natural Language Processing, Computer Security, Software Security.

Diploma in Engineering with Business Singapore Polytechnic — Apr 2017 - Mar 2021

GPA 3.96 / 4.0. DEB Gold Medallist (ranked first in cohort); Techsource System Prize 2019 & 2020.

SKILLS

Languages: Python, TypeScript, Java, C/C++
AI: Claude API, Ollama, Multi-agent LLM pipelines, LLM security
Frameworks & Data: FastAPI, Flutter, React, Next.js, PostgreSQL
Tools: Git, Vitest, Playwright, Power Automate

WORK EXPERIENCE

Singapore Airlines — Jan 2026 - Aug 2026

Technical Developer Intern, Governance, Risk & Compliance

- Deployed a policy-review AI on enterprise LLM infrastructure, choosing full-context loading over vector retrieval (RAG) to map whole domains rather than single clauses; reduced Cyber Trust Mark control mapping from days to hours
- Built an AI tool, now in regular use by the GRC team and under evaluation by other departments, that reviews third-party security documentation against internal control requirements and flags gaps with proposed remediation
- Presented 4 major initiatives to senior leadership including the CISO, and coordinated PCI DSS remediation with owners of 8 critical applications through to closure

IOI Properties Singapore — May 2025 - Aug 2025

Digital Transformation and Technology Intern

- Digitised onboarding, IT ticketing and catalogue request workflows with Power Automate prototypes, replacing manual form-and-email processes

PROJECTS

CyberCookie | Python, Claude API | cybercookie.amadeuseka.com Live

- Published 100+ issues unattended with an autonomous multi-agent LLM pipeline (scorer, writer, reviewer agents) that ingests ~20 feeds
- Turned CVEs and threat reports into plain-English risk briefings
- Mitigated indirect prompt injection from scraped content via input delimiting, an AI review gate and a domain allow-list sanitiser

Sentry | Python, FastAPI, Flutter | SimplifyNext Hackathon Semi-finalist

- Built an agent that reasons over an entire suspicious conversation to tell users whether they are being scammed
- Kept LLM verdicts reproducible and auditable with a deterministic 12-check engine; extracted scam indicators from screen recordings with an LLM pipeline

GeNiUS | Next.js, TypeScript, PostgreSQL | Academic discussion platform

- Built the discussion engine: threaded discussions, up-voting and server-side identity filtering for anonymous help
- Implemented cursor-based pagination with infinite scroll (REST API, TanStack Query) and admin moderation tooling
- Wrote Vitest unit and Playwright end-to-end suites covering discussion, comment and moderation flows

LEADERSHIP & ACTIVITIES

Student Ambassador, NUS Centre for Future-ready Graduates: represents NUS students at the university's flagship career fairs — 2026-27

Vice-President Internal, NUS Climbing Club: 360-member club; directed ClimbNUS (400+ participants); Colours Award — 2024-25

Platoon Commander, Singapore Armed Forces: commanded platoons of over 60 personnel each; Commander Coin — 2022-23

Interests: Rock climbing, Muay Thai