

SAMUEL SIU

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EDUCATION

Nanyang Polytechnic

Diploma in Applied AI & Analytics | 2025 – 2028

CGPA: **3.89 / 4.00** · NYP Lumina Scholarship, Year 1 & 2 · Director's List x2

Relevant Coursework: Data Structures & Algorithms · Responsible AI for Sustainability · Full Stack Application Development · Data Wrangling · Predictive Analytics & Forecasting · Statistical Research Methods

SELECTED WORK

LUMI | Dell InnovateFest 2026 · 2nd Place · Microsoft Copilot Award

Product & Technical Development | Nanyang Polytechnic x Dell x SPD | Aug - Sept 2026

- Co-developed an assistive communication prototype spanning AI, software and physical hardware prototyping, from early concept through live user testing and the final competition demo.
- Tested the prototype with a PWID and caregiver; observed conversational dead ends, lag and unclear controls, then simplified interaction and recovery flows.

INSITE | Industrial Project with EM Services & Quantified Energy

Team Lead | Nanyang Polytechnic | Apr 2026 - Aug 2026

- Led a student team developing a decision-support platform for aligning resident concerns with estate planning and organisational priorities.
- Translated an open-ended client problem into an end-to-end workflow spanning feedback intelligence, geospatial analysis, scenario exploration and evidence-backed reporting.
- Drove product and architecture decisions across the platform, balancing technical capability, interpretability and stakeholder needs through iterative industry feedback.
- Took the final release through deployment on Cloudflare Pages, Render and PostgreSQL; the final build passed 457 backend and 137 frontend automated tests.

Drop The Beat! | Independent Project

Creator / Developer | Sep 2026 - Present

- Building a Roblox music and DJ experience that translates arrangement, effects and live performance into accessible multiplayer game mechanics.
- Designing reusable audio and gameplay systems around player expression rather than conventional rhythm-game scoring.

TAKEOVER.exe | Magical Mirai 2026 Programming Contest

Independent Developer | June 2026

- Built and submitted an interactive TextAlive lyric experience using PixiJS/WebGL, with a procedural director that transforms a simulated desktop in sync with song progression and player interaction.
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LEADERSHIP

Sakuran Japanese Culture Club | NYP

Origami Division Head | Apr 2026 - Present

Class Representative | NYP

AY2025 Semester 2

TECHNICAL SKILLS

Languages: Python · JavaScript · SQL · Lua / Luau · GLSL

Web & Graphics: React · Vite · Express · PixiJS · TextAlive · WebGL · ModernGL

Data & ML: NumPy · pandas · scikit-learn · PostgreSQL

Tools & Platforms: Git · GitHub · Docker · Red Hat OpenShift · Roblox Studio