

Oliver Ang

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EDUCATION

Nanyang Technological University

Aug 2024 – Jul 2027

Bachelor of Science (Honours) in Mathematical Sciences

- Specialisation in Data Analytics and Statistical Learning, accelerated graduation with expected Honours (Distinction)
- NTU President Research Scholar, URECA Undergraduate Research Programme
- Relevant modules: Computational Thinking (Python), Algorithms and Computing, Data Science and AI (R, ML), Linear Algebra, Probability, Statistics, Regression Analysis, Sampling and Survey, Cryptography, Coding Theory

WORK EXPERIENCE

Formative Minds

Founding Product Engineer & Teaching Intern

May 2026 – Aug 2026

- Orchestrated multi-agent LLM workflows by creating 16 custom Claude Code skills and routing models by role, with test-driven development and human-in-the-loop review at critical checkpoints
- Identified failure modes from per-run development logs and codified fixes into persistent agent instructions and a 25+ rule playbook for generative models (context engineering), stopping resolved errors from recurring
- Developed generative AI pipelines for image, video, and audio models (Higgsfield, ElevenLabs) via MCP tool calls and REST APIs behind spend-approval gates, delivering 4 films and 40+ production assets currently in use; trained a non-technical colleague to run these workflows
- Spearheaded digital product line from concept to production to live deployment as the sole developer: Flutter kiosk app in daily use at 2 sites, Supabase backend, and cross-platform app in development

Freelance Developer

Sep 2025 – Apr 2026

- Formulated diagnostic logic as a deterministic decision graph routing tutor inputs (Fillout) into a structured database (Airtable), where prompt-designed LLM fields generated parent progress reports
- Developed a Playwright pipeline to batch-generate annotated progress charts for all students, saving an estimated 12+ hours of manual work per term; chose trend-line fits by evaluating algorithms on edge cases

PROJECTS

Personal Agentic Home Server | Self-hosted AI and Automation Stack

Jul 2026 – Present

Python, Bash, Linux, Docker, Tailscale, Claude Code CLI, Telegram Bot API

- Established self-hosted agent runtime on a mini PC running 18 scheduled jobs, including 5 headless LLM agents, routed across a three-tier cost model (scripts, light model, heavy model)
- Enforced least-privilege guardrails with an outbound allowlist of 3 services, a single credential per container, university logins withheld from the LLM, and usage caps with missed-run alerts

NTULearn Toolkit | Lecture Archive and Daily Digest Bot

Jun 2026 – Present

Python, Playwright, Blackboard REST API, Kaltura API, FFmpeg, SQLite

- Developed a vision-language pipeline that turned lecture recordings into personalised study notes (from 2-hour lecture, to ~100 slide frames, to summary), selected model after an A/B evaluation for lowest hallucination rates

LEADERSHIP

Nanyang Technological University Archery Club

Aug 2024 – Present

Senior Logistics Officer (2025–26), Junior Logistics Officer (2024–25), Varsity Athlete

- Directed equipment procurement on a \$5,000 annual budget for a 180+ member club and 50+ athlete varsity team
- Coordinated logistics for the largest annual archery competition in Singapore (300+ participants from 13 institutions)

SKILLS & INTERESTS

Languages: Python, R, SQL

AI & LLM: agentic workflows, multi-agent orchestration (Claude Code), context engineering, prompt engineering, model selection and evaluation, human-in-the-loop, MCP tool calls, generative AI, cost governance

Statistics & Machine Learning: regression, classification, clustering, PCA, sampling and survey design

Tools & Platforms: Git, REST APIs, Playwright, Docker, Linux, Supabase, Flutter, Android Studio

Hobbies & Interests: target archery (Olympic recurve), continental philosophy (Deleuze, Lacan)