

Thaddeus Kuah

Passionate technologist and second-year IT student at Nanyang Polytechnic. I love crafting full-stack applications, smoothing out DevOps, and contributing to open-source projects.

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TECHNICAL SKILLS

| | |
|---|--|
| Programming & Markup Languages | TypeScript/JavaScript (Node.js, Bun, Deno), Python, HTML, CSS |
| Frameworks & Libraries | Next.js/React, Astro, Tailwind CSS, Flask, Jinja |
| Databases | MongoDB, MySQL/MariaDB |
| DevOps | Vercel, GitHub Actions, Docker, Docker Compose |
| Cloud Computing & Serverless | Amazon Web Services, Oracle Cloud, Cloudflare Workers |
| System Administration & Tools | Linux (Ubuntu Server), Caddy, Bash, SSH, FTP/SFTP, Tailscale, Neovim |
| Source Control | Git, GitHub, GitLab |

FEATURED PROJECTS

tkkr.dev

Feb 2025 – Present

- Designed and built a personal website to showcase my projects, skills, and development journey.
- Deployed on Vercel with continuous integration via GitHub commits for automatic updates.
- Built with Next.js, optimized for performance, achieving a perfect 100 score on Vercel's Speed Insights.
- Responsive design, ensuring an optimised experience on all devices with fast load times and adaptive layouts.
- Features a link shortener that allows users to shorten links in seconds.
- Technologies:** Next.js/React, Vercel, Tailwind CSS, MongoDB, OAuth2, GitHub Actions, HTML, JavaScript
- GitHub Repository:** <https://github.com/thaddeuskkk/tkkr.dev>

Nova

Aug 2024 – Present

- Developed an open-source, self-hosted URL shortener built with TypeScript (Bun) and Docker.
- Crafted a clean, intuitive web UI and a developer-friendly REST API, allowing users to shorten links in seconds.
- Shipped advanced features – password protected links, multi-slug support, Google OIDC login, and expiry rules.
- Streamlined deployment to a single command via Docker Compose and GitHub Actions CI/CD.
- Technologies:** Bun, Docker, GitHub Actions, MongoDB, OAuth2, React, REST APIs, TypeScript
- GitHub Repository:** <https://github.com/thaddeuskkk/nova>

pay2live

Nov 2024 – Feb 2025

Associated with Nanyang Polytechnic – IT1966 App Development Project [Distinction]

- Led a 4-person team to deliver a clinic patient-management web application.
- Added features such as appointment booking, queue management, admin dashboards, and WhatsApp-OTP login.
- Added public-facing views for screens and deployment solutions for edge devices.
- Deployed in containers on cloud infrastructure; set up GitHub Actions for automated image builds and updates.
- Technologies:** Docker, Flask, GitHub Actions, Jinja, jQuery, MongoDB, Python, Tailwind CSS
- GitHub Repository:** <https://github.com/thaddeuskkk/pay2live>

EDUCATION

Nanyang Polytechnic

2024 – Present

Diploma in Information Technology • CGPA: 3.55

St. Joseph's Institution

2019 – 2023

O Level Programme • ELR2B2 (net): 10

- Outstanding Josephian Award [2023]
- Edusave Award for Achievement, Good Leadership and Service (EAGLES) [2023]
- SJI Uniformed Groups – Best Skill Award – Scouts [2021]
- Represented school at the Anti-Scam Student Champions (ASSC) competition, obtained 1st team placing [2020]
- Participated in various Values-in-Action (VIA) projects and activities adding up to 120 hours [2019 – 2023]

St. Hilda's Primary School

2013 – 2018

Primary Education (PSLE) • T-score: 245

- Edusave Award for Achievement, Good Leadership and Service (EAGLES) [2018]
- Elected as Vice-Head Prefect [2017]
- Edusave Certificate of Academic Achievement [2015 – 2018, consecutive]

CERTIFICATIONS

Credly – credly.com/users/tkkr

- MongoDB Associate Developer (issued by MongoDB) [Jul 2025]
- CRUD Operations in MongoDB (issued by MongoDB) [Jul 2025]
- [PCEP-30-02] PCEP™ – Certified Entry-Level Python Programmer (issued by Python Institute) [Jun 2025]
- GitHub Foundations (issued by GitHub) [Feb 2025]
- AWS Academy Graduate - AWS Academy Cloud Foundations (issued by AWS Training and Certification) [Oct 2024]
- Web Development Fundamentals (issued by IBM SkillsBuild) [Apr 2024]
- Information Technology Fundamentals (issued by IBM SkillsBuild) [Apr 2024]
- Cybersecurity Fundamentals (issued by IBM SkillsBuild) [May 2024]

Coursera – coursera.org/user/2d2f41b9a13d747a469d366452efae96

- Foundations of Cybersecurity (issued by Google) [ID: FCL8DK7RUAYF] [Sep 2024]
- Technical Support Fundamentals (issued by Google) [ID: IXF608ZMOFM2] [Sep 2024]

HackerRank – hackerrank.com/thaddeuskkkr

- C# (Basic) [ID: 456CCEA66785] [Apr 2025]
- Frontend Developer (React) – Role Certification [ID: F5BAA987CE6E] [Jul 2024]
- Problem Solving (Intermediate) [ID: BD517FEB94B1] [Apr 2024]
- Node.js (Intermediate) [ID: DB646D3175E0] [Apr 2024]
- JavaScript (Intermediate) [ID: 5094775C3882] [Apr 2024]
- CSS (Basic) [ID: ECFDE157E923] [Apr 2024]
- REST API (Intermediate) [ID: 62DAC9AE09FE] [Apr 2024]
- SQL (Advanced) [ID: 509E1486B467] [Apr 2024]

WORK EXPERIENCE

Apple

Aug 2025 – Present

Specialist • Part-time

- Demonstrate in-depth knowledge of Apple's complete ecosystem and services to provide tailored recommendations and technical guidance
- Personalise product recommendations and solutions based on individual customer requirements, effectively communicating complex technical concepts in accessible terms
- Manage multiple customer interactions simultaneously in high-volume retail environments while maintaining attention to detail and service quality
- Foster team accountability and shared responsibility, contributing to store goals while supporting colleague development and knowledge sharing
- Actively expand product knowledge across Apple's evolving portfolio and third-party integrations to enhance customer experience and drive informed purchasing decisions
- Handle sensitive customer information with discretion, upholding Apple's core values of privacy and security in all interactions

KOI Thé Singapore

Mar 2025 – Apr 2025

Tea Barista • Part-time

- Took customers' orders and provided exceptional customer service.
- Packed drinks and ensured smooth and timely delivery of drinks to customers.

Noel Gifts International Ltd

Dec 2023 – Mar 2024

Operations Assistant • Part-time

- Prepared, packed, transferred and cleared gifts.
- Updated warehouse stock within SAP system.
- Kept work area clean and assisted with storage.
- Assisted with duties as assigned by supervisor.

SOFT SKILLS

Leadership, resilience, teamwork, problem-solving, critical thinking, adaptability, time management, attention to detail, creativity, versatility, empathy, emotional intelligence, adeptness, conflict resolution

REFERENCES

- Brendan Cheong – General Education Officer, Ministry of Education (MOE) Singapore
Form Teacher (2021-2023) – brendan.cheong@sgj.edu.sg
- Jasmine Ng – Senior Manager, Nanyang Polytechnic
Personal Mentor (2024-Present) – jasmine_ng@nyp.edu.sg