

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 whenever I spot a chance to help.

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TECHNICAL SKILLS

Programming & Markup Languages	TypeScript / JavaScript (Node.js, Bun, Deno), Python, C#, HTML, CSS
Frameworks & Libraries	React, Astro, Flask, Jinja
DevOps	Vercel, GitHub Actions, Docker, Docker Compose, Podman
Cloud Computing	Amazon Web Services, Google Cloud, Oracle Cloud
System Administration & Tools	Linux (Ubuntu/Arch), Caddy, Bash, SSH, Neovim, FTP/SFTP
Source Control	Git, GitHub, GitLab
Productivity	Microsoft Office (Word, Excel, PowerPoint, Project)

SOFT SKILLS

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

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 Astro, optimized for performance, achieving a perfect 100 score on Google PageSpeed Insights.
- Responsive design, ensuring an optimised experience on all devices with fast load times and adaptive layouts.
- Added real-time features like displaying the current local time and my live Discord status via Lanyard.
- **Stack:** Astro, Vercel, HTML, CSS, JavaScript, GitHub Actions
- **GitHub Repository:** <https://github.com/thaddeuskkr/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.
- **Stack:** TypeScript (Bun), React, Docker, OAuth2, REST APIs, GitHub Actions
- **GitHub Repository:** <https://github.com/thaddeuskkr/nova>

dev-container Feb 2024 – Present

- Created and packaged a reproducible Ubuntu development container.
- Included multiple development tools, e.g., Docker-in-Docker, Node.js, Bun, Swift, Python, etc.
- Enabled SSH and Visual Studio Code Tunnels, with secure SSH and GPG key passthrough for cloud development.
- Daily automated GitHub Actions builds push multi-architecture images, cutting onboarding to minutes.
- **Stack:** Bash, Docker, GitHub Actions
- **GitHub Repository:** <https://github.com/thaddeuskkr/dev-container>

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.
- Deployed in containers on cloud infrastructure; set up GitHub Actions for automated image builds and updates.
- **Stack:** Python, Flask, Jinja, Tailwind CSS, jQuery, MongoDB
- **GitHub Repository:** <https://github.com/thaddeuskkr/pay2live>

CERTIFICATIONS

Credly – credly.com/users/tkkr

- GitHub Foundations (issued by GitHub)
- AWS Academy Graduate - AWS Academy Cloud Foundations (issued by AWS Training and Certification)
- Web Development Fundamentals (issued by IBM SkillsBuild)
- Information Technology Fundamentals (issued by IBM SkillsBuild)
- Cybersecurity Fundamentals (issued by IBM SkillsBuild)

Coursera – coursera.org/user/2d2f41b9a13d747a469d366452efae96

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

HackerRank – hackerrank.com/thaddeuskkr

- C# (Basic) [ID: 456CCEA66785]
- Frontend Developer (React) – Role Certification [ID: F5BAA987CE6E]
- Problem Solving (Basic, Intermediate) [ID: 7139B78733F3, BD517FEB94B1]
- Node.js (Basic, Intermediate) [ID: 239637108060, DB646D3175E0]
- JavaScript (Basic, Intermediate) [ID: 8C9A876ACC53, 5094775C3882]
- CSS (Basic) [ID: ECFDE157E923]
- Python (Basic) [ID: 9217AED9F0C3]
- React (Basic) [ID: 7BD352BD557F]
- REST API (Intermediate) [ID: 62DAC9AE09FE]
- SQL (Basic, Intermediate, Advanced) [ID: DB35006696C6, 7AE0D98C8694, 509E1486B467]

EDUCATION

Nanyang Polytechnic

2024 – 2027

Diploma in Information Technology • CGPA: 3.46

St. Joseph's Institution

2019 – 2023

O Level Programme • ELR2B2: 10

- Edusave Award for Achievement, Good Leadership and Service (EAGLES) [2023]
- Outstanding Josephian Award [2023]
- SJI Uniformed Groups – Best Skill Award – Scouts [2021]
- Participated in the Data Science on Amazon Web Services Accelerator [2021]
- Represented school at the Anti-Scam Student Champions (ASSC) competition, obtained 1st team placing [2020]
- Participated in various 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]
- Edusave Certificate of Academic Achievement [2015 – 2018, consecutive]
- Boys' Brigade Juniors Programme Gold Award [2018]
- Elected as Vice-Head Prefect [2017]

WORK EXPERIENCE

KOI Thé Singapore

Mar 2025 – Apr 2025

Cashier • 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

- Assisted in preparation, packing, transferring and clearance of gifts.
- Assisted in updating of warehouse stock within SAP system.
- Assisted in storage and housekeeping of work area.
- Assisted with duties as assigned by supervisor.

LANGUAGES

- English – native proficiency, written/spoken
- Chinese – professional working proficiency, written/spoken