

Joseph Poon



Bio

Technical Lead for [brwne](#) & Software Engineering student at SIT with a passion for high-performance systems. CLI user, software architect & open-source developer

Contact

Website: [adoreblvnk.com](#)
josephpzh@proton.me
joseph@thepirateship.net (for brwne inquiries)
[linkedin.com/in/josephpoon](#)
[github.com/adoreblvnk](#)

Education

BEng (Hons) in ICT (Software Engineering)

SIT (Singapore Institute of Technology) Aug 2025 – Aug 2029

- GPA: 4.83 / 5

Diploma in Cybersecurity & Digital Forensics

Nanyang Polytechnic Mar 2020 – Mar 2023

- GPA: 3.33
- **Director's List (AY 2022/2023):** Awarded to top 15% of cohort for academic excellence in a semester
- **Good Progress Award (2022):** Awarded to top 10% of students in terms of improvement of academic performance & good conduct
- **Diploma-Plus Modules:** Cloud Computing Foundation, CEH (Certified Ethical Hacker)

Technical Skills

- Languages & Systems Programming
 - Go, Python, JavaScript, TypeScript, Rust
- OS & Scripting: Linux (Debian), Bash
- DevOps Methodologies: Agile, Scrum
- Container Orchestration
 - Docker, Kubernetes (Helm, Istio, Kyverno, Knative)
- CI/CD: Jenkins, ArgoCD

Working Experience

Acting CTO

[PirateShip](#)

Dec 2025 – Present

Technical Lead 5 mths / Aug 2025 – Dec 2025

Intern 3 mths / May 2025 – Jul 2025

- **brwne:** Adversarial, multi-agentic QA platform to generate, maintain, & validate E2E test suites
 - Engineered an iterative refinement method for generating Playwright tests
 - Prototyped a self-healing mechanism for differentiating intentional code changes & regressions
- **brwne legacy:** A real-time collaborative tool to prevent merge conflicts for dev teams
 - Developed a Rust desktop client via Tauri
 - Engineered a high-performance Go local daemon sidecar, monitoring Git & file events in real time
 - Deployed CI/CD pipeline for backend server onto Linode & Linux release
 - Achievements:
 - * NUS VIP (Venture Initiation Programme) Awardee: \$10,000 May 2025
 - * Best Project Award for [NUS STePS](#): \$2,000 Apr 2025

Tax Officer

IRAS

5 mths / Feb 2023 – Jun 2023

- Aided in filing of several tax forms, including Individual Income Tax (Form B, B1, M), Partnerships (Form P) & Stamp Duty (Lease & Tenancy Agreement) for taxpayers
- Setup of Linux systems on IoT devices & printers for queue display, developed a website for printing queue numbers

Full Stack Developer Intern, AI Core

SAP

6 mths / Mar 2022 – Aug 2022

- Developed an automated framework for gathering statistics on integration & unit tests
- Implemented HA (High Availability) for Kubernetes components
- Performed pipeline migration for outdated Jenkins pipelines
- Contributed to feature development, testing, deployments & releases in an Agile Scrum team

Competitions

Gamified Hackathon Challenge 2026

Newcastle Australia *Top 10 / Jul 2026*

- Top 10 (\$100) in an open category OffSec CTF

SCDF x Dell Innovation Challenge

SCDF x Dell *3rd Place / Jul 2026*

- Developed [1stSight](#): live recommendations, searchable incident timelines & AAR slide generation from SCDF bodycam streams
- 3rd place (\$3,000) out of 270+ participants

Gemini 3 Hackathon Singapore

Cerebral Valley *2nd Place / Mar 2026*

- Developed [Krashless](#): an agentic dashboard which makes intersections safer by reimagining proposed modifications live
- 2nd place (\$30,000) out of 350+ participants sponsored by Google Deepmind

HackRift 2025

SIT *1st Place / Dec 2025*

- Developed [TriageX](#): an autonomous voice-first medical triage kiosk powered by a multi-agent AI ensemble to slash polyclinic wait times
- 1st place (\$4,900+) prize out of 150+ participants

IEEE SOLI 2025 Hackathon

IEEE *3rd Place / Sept 2025*

- Developed [err](#): an AI supply chain anomaly detection web app
- 3rd place with a \$900 prize pool

Code Overflow

NYP *1st Place / Sept 2022*

- Sustainability-themed coding hackathon by NYP School of Information Technology club
- Developed [EnergyClash](#): a web app targeted at reducing household electricity consumption via gamification

Debug Minds Hackathon

NYP *2nd Place / Sept 2021*

- Creative coding hackathon conducted by NYP School of Information Technology club

Soft Skills

- Technical Leadership
- Performance Under Pressure
- Systems Thinking
- Rapid Prototyping & Execution
- Adaptability & Fast Learning

Projects / Open Source

Life OS

Jul 2025 – Present

- Life management system to organize & manage your life as an Obsidian vault
- Developed dynamic dashboards to manage tasks, projects, & journals using Dataview & [CustomJS](#) plugins to create a centralized personal workspace

cozydot

Jul 2024 – Present

- cozydot is an automated post-install, update, & config (dotfile) manager for Linux
- Uses declarative YAML configs to manage system packages (apt, Flatpak, Cargo), dotfiles (via GNU Stow), & application settings for a customizable & idempotent setup

Sustainacity

Dec 2022

- AR (Augmented Reality) enhanced web app to showcase DBS' sustainability initiative. Created for [NYP x DBS AR Sustainability Storytelling Competition 2022](#)

adore_melxdy

Sept 2021

- Cloud-hosted Youtube music bot for Discord

-vouch

Aug 2021

- Web app aimed at automation via data extraction & data matching for vouching in the audit industry. Created for AIC21

Certifications

Google IT Automation with Python

Google

Mar 2023

- Completion of 6 courses: Crash Course on Python, Using Python to Interact with the OS, Introduction to Git & Github, Troubleshooting & Debugging Techniques, Configuration Management & the Cloud, Automating Real-World Tasks with Python

Alibaba Cloud Associate (ACA)

Alibaba Group

Oct 2022

- Certifies the proficient use of Alibaba Cloud Computing Products.

Certified Ethical Hacker (CEH v11)

EC-Council

April 2021

- Demonstrates ability to identify & mitigate security risks.