Galvin Yap

+65 8866 3960 | galvinymj@gmail.com | linkedin.com/in/galvin-y | github.com/iD0omb | galvos.dev

Available for internship (IWSP): 3 May 2027 – 7 Apr 2028

Education

Singapore Institute of Technology Sep 2024 – Expected Apr 2028
BEng (Hons) in Information & Communications Technology, Software Engineering *Singapore*

- **Relevant coursework:** Data Structures & Algorithms, Database Systems, Web Systems, Mobile App Development

Singapore Polytechnic Apr 2019 – Apr 2022
Diploma in Electrical & Electronic Engineering *Singapore*

ITE College East Jan 2017 – Dec 2018
Nitec in Electronics, Computer Networking & Communications *Singapore*

Projects

SafeNest | *Cloudflare, GitHub Actions, AWS EC2, Docker Compose, Nginx* May 2026 – Jul 2026

- *Secure university lost-and-found web application built by an 8-person team.*
- Set up the project's deployment and networking: registered the domain through Porkbun and configured Cloudflare DNS to route the app through Cloudflare with TLS between the client and origin server.
- Built a CI/CD pipeline with GitHub Actions that automatically runs the test suite and deploys the app to an AWS EC2 host on every merge to main, replacing manual deployment.

StudyBuddy | *Kotlin, Jetpack Compose, LiteRT, Firebase/Firestore* Jan 2026 – Mar 2026

- *Android app that matches students with study partners via a swipe-based interface.*
- Led development and training of an on-device LiteRT model that generates study-partner compatibility scores, using edge computing to run inference locally on user devices rather than a cloud server.
- Trained the model on a synthetic dataset and qualitatively validated its output, confirming that intuitively compatible pairs scored higher and identifying real interaction data as the main gap for production accuracy.

T480 Home Lab | *Linux, Tailscale, VLC, RTSP* 2025 – Present

- *Repurposed a ThinkPad T480 as an always-on Linux base station for a home network.*
- Configured the T480 as a Tailscale subnet router (WireGuard-based mesh VPN), forwarding traffic from remote devices to a local IP CCTV camera so its feed could be streamed over an encrypted connection without exposing the camera to the public internet or setting up port forwarding.

Autonomous Navigation Robot | *Fusion 360, 3D Printing, Hardware Integration* 2021

- *Team-built autonomous robot designed to navigate between set waypoints (EEE diploma project).*
- Designed and 3D-printed custom mounting parts in Fusion 360, including the housing for the LIDAR sensor, and handled wiring, hardware troubleshooting, and parts sourcing to integrate the robot's components.

Technical Skills

Languages: Python, C, C#, C++, Java, Kotlin, SQL
Frameworks & Libraries: TensorFlow, Keras, TensorFlow Lite / LiteRT, NumPy, scikit-learn
Developer Tools: Git, Docker & Docker Compose, GitHub Actions (CI/CD), Linux, Bash
Cloud & Networking: AWS EC2, AWS S3, Cloudflare, Tailscale, Firebase/Firestore
Design & Hardware: Fusion 360, AutoCAD, 3D Printing

Awards & Achievements

Selected for the USI Social Innovation Project Showcase — presented a solution addressing AI over-reliance among youth (2026)

MOE Edusave Certificate of Academic Achievement — 2020

School of EEE Director's Honour Roll — 2019–2020

Nitec in Computer Networking & Communications, Director's List — 2017