

# Htoo Aung Win

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Available 12 Apr – 29 Aug 2027 | Credit-bearing SIT attachment, no Employment Pass required

## EDUCATION

**Singapore Institute of Technology** Aug 2026 – Apr 2029 (expected)  
BSc (Hons) Applied Computing, Fintech specialisation · SIT scholarship recipient

**Singapore Polytechnic** 2023 – 2026  
Diploma in Computer Engineering | GPA 3.87 / 4.0  
Coursework: Grafana on ELK for a simulated SOC · EC2 detailed monitoring, CloudWatch agent memory metrics

## EXPERIENCE

**Student Software Developer (Part-time)** Oct 2026 – Nov 2026  
Singapore Institute of Technology · SIT Student Work Scheme

- Building BACMODS, a timetable planner for SIT Applied Computing students, in a team of 4: a data pipeline from the official Excel module lists to JSON, clash-detection logic, pull-request reviews on GitHub, testing and deployment, working AI-assisted with human review

**System Engineer Intern** Sep 2025 – Feb 2026  
Zectech Pte Ltd · Singapore · System integrator for government sites and projects

- Identified and automated manual image retrieval across ~20 remote CCTV sites, replacing ~160 engineer-hours a month of site travel with scheduled Bash and cron jobs (retry logic, file-integrity checks) that upload to a Synology NAS through its API
- Built the remote connectivity the automation runs over: IPsec site-to-site tunnels on FortiGate for public-IP sites, and an OpenVPN relay on a DigitalOcean Ubuntu VPS for 4G sites behind CGNAT
- Handled 15+ network and endpoint faults a week as one of three first-line engineers, including after-hours outage callouts, diagnosing through Linux CLI logs and connectivity tracing

**Security System Engineer (Part-time)** Sep 2025 – Feb 2026  
AGB Communication Co., Ltd · Myanmar telecom and enterprise IT provider

- Assessed client infrastructure and reported findings by severity with a remediation path for each; the medium and high-severity items were remediated

## PROJECTS

**Serverless Multi-Environment Cloud Platform** 2026  
Personal project, live at htooaungwin.com · Python (Lambda), Terraform, GitLab CI/CD, Next.js, DynamoDB, API Gateway

- Monitored availability and latency with CloudWatch alarms (Lambda errors and duration; API Gateway 4xx/5xx) routed SNS → Lambda → Slack, so failures surface in chat rather than via a user
- Built and run a full-stack serverless application across two AWS accounts isolated by AWS Organizations, provisioned entirely in Terraform (~40 resources per environment) with no manual console changes since launch
- Removed long-lived AWS credentials from deployment entirely by authenticating GitLab CI/CD through OIDC; releases gate on pytest/moto unit tests and Playwright smoke tests

**Telegram Marketplace Risk Assessor** 2026  
SIT team project (INF1103) · Python, Gemini API, Telethon, pytest, Docker, GitHub Actions, GHCR

- Top contributor (63 of 141 commits); wrote most of the Python backend for a tool that flags scam signs in Telegram marketplace deals: Telethon chat reading, a two-stage Gemini pipeline and fixed High/Medium/Low risk rules
- Built the CI/CD pipeline in GitHub Actions: every pull request builds the Docker image, runs 19 pytest tests inside the container and health-checks the frontend, so broken changes are caught before merge; merges to main publish a versioned image to GHCR
- Built it to fail safe: AI answers are schema-checked with retries and logging, and a failed check returns “Not Assessed” rather than a false Low Risk

## RECOGNITION

**Lenovo and Cisco Security Halls of Fame (2024) · Cisco NetAcad Riders 2025 Silver Award**

## CERTIFICATIONS AND SKILLS

**Certifications:** AWS Solutions Architect Associate · KCNA · KCSA · Terraform Associate · eCPPT · Fortinet FCA

**Observability:** Grafana · ELK/Elasticsearch · CloudWatch (alarms, dashboards) · Prometheus · Wazuh SIEM

**Languages and Data:** Python · Bash · SQL (PostgreSQL, MySQL) · Pandas · NumPy · FastAPI/Flask · pytest · Git · Linux administration

**Cloud, Containers and IaC:** Kubernetes · Docker · Terraform · HCP Terraform · Infrastructure as Code · GitLab CI/CD · OIDC federation · AWS (Lambda, API Gateway, DynamoDB, VPC, IAM, CloudWatch, Organizations)