

Jun Long Ling

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EDUCATION

National University of Singapore

Aug 2026

Bachelor of Computing in Computer Science

EXPERIENCE

SP PowerGrid

Jan 2026 – June 2026

Software Engineer Intern

- Maintained load monitoring across 11 substations with Raspberry Pi devices, digital power meters, Python, and Linux services
- Diagnosed PyModbus, systemd, and Telegram alert failures by checking logs, comparing deployments, and updating runbooks
- Corrected Python meter scaling for voltage, current, power, and kWh readings to improve load data accuracy
- Refactored Three.js 360° tour with asset caching and overlay controls to reduce redundant loads and UI conflicts
- Built Web Speech API controls for voice navigation across stations, hotspots, maps, panoramas, and overlays

Central Provident Fund Board

May 2024 – Jul 2024

Customer Service Officer

- Handled about 40 daily member cases on MediSave, healthcare claims, and Silver Support Scheme policies
- Resolved member questions and escalated supervisor requests while helping elderly callers with forms and subsidy appeals

Kyndryl

May 2023 – Jul 2023

IT Stock Administrator

- Reconciled 1,000+ hospital IT assets with Excel and barcode scanning, including laptops, desktops, printers, and workstations
- Flagged wrong asset locations and retired devices still marked active, helping Hospital IT improve inventory accuracy

PROJECTS

MyPerseverance | React, TypeScript, Spring Boot, PostgreSQL, Docker

- Built full-stack habit tracker with authentication, daily tasks, streaks, and heatmap calendar
- Containerized React, Spring Boot, and PostgreSQL services with Docker Compose for local deployment

PowerButton | Kotlin, Android SDK

- Built Android utility for power menu, volume controls, and lock screen access when hardware buttons fail
- Implemented accessibility, overlay, foreground service, and device admin flows for system-wide controls

ThinkBoard | React, Express, MongoDB, Pusher/WebSockets

- Built real-time collaborative note board with WebSocket channels for concurrent multi-client edits
- Persisted notes in MongoDB with indexed board queries to reduce collection scans under load

SKILLS

Programming Languages: Python, Java, JavaScript, SQL

Databases: PostgreSQL, MongoDB, InfluxDB

Technologies: Linux, Bash, Git, Docker, Grafana, Raspberry Pi, Android SDK