

# Ling Jun Long

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## Education

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**National University of Singapore (NUS)**

Expected Aug 2026

Bachelor of Computing in Computer Science

## Work Experience

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**Software Engineering Intern, SP PowerGrid**

Jan 2026 – Jun 2026

- Diagnosed and fixed 32-bit Modbus active-energy (kWh) decoding and scaling bugs in Python telemetry pipelines, restoring accurate production energy readings across monitoring systems serving 10 substations
- Reduced on-call maintenance overhead by ~30% by consolidating two redundant telemetry ingestion scripts into a single Python pipeline, eliminating duplicate processing across 10 substations
- Built an internal Virtual Power Plant training platform using HTML and JavaScript, with interactive substation maps and 360° panorama views, adopted by 3+ engineers across 10 substations
- Integrated telemetry data into InfluxDB and built Grafana dashboards to visualize real-time power meter readings across 10 substations

**Customer Service Officer, Central Provident Fund Board**

May 2024 – Jul 2024

- Resolved complex account and healthcare-related queries by coordinating across internal departments to ensure accurate case handling
- Supported elderly and vulnerable members with digital government applications, improving accessibility and submission accuracy

**IT Stock Administrator, Kyndryl**

May 2023 – Jul 2023

- Reconciled IT asset records for 1,000+ hospital devices in a mission-critical healthcare environment

## Projects

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**MyPerseverance**

[github.com/JunLongling/MyPerseverance](https://github.com/JunLongling/MyPerseverance)

- Built a full-stack habit tracking application using React, Spring Boot, and PostgreSQL
- Designed RESTful APIs for habit management and streak tracking
- Containerized frontend, backend, and database services with Docker Compose for reproducible local deployment

**PowerButton**

[github.com/JunLongling/PowerButton](https://github.com/JunLongling/PowerButton)

- Developed an Android accessibility utility using Java and the Android SDK to help users control power and volume without hardware buttons
- Implemented overlay and accessibility permission handling with a persistent foreground service for reliable system-wide use

**ThinkBoard**

[github.com/JunLongling/ThinkBoard](https://github.com/JunLongling/ThinkBoard)

- Built a real-time collaborative note board using WebSockets to support concurrent edits across multiple clients
- Implemented MongoDB persistence and optimized indexes to reduce collection scans under concurrent load

## Skills

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**Languages:** Java, Python, JavaScript, HTML, CSS

**Frameworks:** React, Spring Boot

**Databases:** PostgreSQL, MongoDB, InfluxDB

**Technologies:** Docker, Linux, Grafana, Git