Olle Marmenlind

marmenlind.com • Stockholm, Sweden • ollemarmenlind02@gmail.com • +46 72 426 37 99 • github.com/thewayla

Completing degree at 75% pace alongside engineering work to bridge distributed systems theory with production infrastructure. Focused on High-Performance Systems, Real-Time C/Embedded, and scalable .NET architecture.

Projects

- **FBG Interrogator (C#/.NET + C/FreeRTOS) – Industry R&D with Proximion AB**
  - Built real-time PC host (using Avalonia for UI and ScottPlot for visualization) for live spectral display and peak analysis (leveraging Math.NET for computations).
  - Engineered a self-hosted CI/CD pipeline (Linux) to orchestrate PR workflows for a 6-person team; utilized hermetic Docker containers to enforce strict linting, formatting, and build validation, preventing non-compliant code from merging across Firmware and PC-Host repositories.
  - Co-developed firmware for RISC-V SoC with USB bulk transfer and FreeRTOS task scheduling.
  - Achieved sub-millisecond sensor readout in lab trials, enabling high-performance real-time analytics.

- **.NET Sales Catalog Generator (C#/.NET) – Sevan AB**
  - Independently designed and built a cross-platform desktop tool in C#/.NET to automate custom catalog creation for Sevan's sales team.
  - Integrates product data from CSV files, merges with live image URLs, and fetches complementary product data via a remote syndication API, generating print-ready PDFs.
  - Slashed manual effort from hours to under 3 minutes with 100% data accuracy.

- **Sevan B2B Scan-to-Order (Kotlin/Native Android) – Sevan AB**
  - Architected a strict MVVM solution using Kotlin Coroutines and StateFlow to manage complex asynchronous scanning states and ensure thread-safety on resource-constrained hardware.
  - Designed a fault-tolerant dual-layer data engine: queries internal Firestore records (using atomic batch transactions for integrity) and automatically fails over to external REST APIs (OpenFoodFacts) for zero-miss metadata resolution.
  - Integrated Google ML Kit for zero-latency, on-device barcode signal processing, eliminating network dependency for scanning operations in low-connectivity field environments.

Experience

Sevan AB   Stockholm, Sweden (Remote)
Product Owner   March 2022 – Present
- Progressed from E-commerce Intern, where I built initial HTML/CSS websites, to Product Owner.
- Authored technical specifications (e.g., API schemas, data models) to guide external development teams.
- Defined QA test plans, triaged bugs, and validated fixes; configured and deployed GCP services; provided technical B2B integration support.
- Built full technical documentation library; onboarded 20+ colleagues.
- Collaborated with marketing, operations, and sales to translate business requirements into technical solutions and guide development priorities.

Education

Royal Institute of Technology (KTH)   Stockholm, Sweden
B.Sc. in Computer Engineering.   Expected June 2027
Relevant Coursework: Data Structures – Algorithms – OS – Microcontrollers – Networks – Databases

Skills

- **Languages:** C – C++ – C#/.NET – Kotlin
- **Systems & Infrastructure:** Linux – Docker – FreeRTOS – RISC-V – CI/CD – Real-time
- **Data & Networking:** SQL – NoSQL (Firestore/MongoDB) – REST – TCP/UDP
- **Tools:** Git – CMake – Bash