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Final-year KTH student seeking entry-level software role | Experienced in desktop apps, embedded C firmware, full-stack, real-time systems, and APIs (C#/.NET, C). Built tools that cut manual work from hours to <3 min and enabled sub-ms sensor analytics.

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 infrastructure on Linux, utilizing hermetic Docker containers to enable offline-capable firmware compilation and automate the delivery of deterministic release artifacts.
 - 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

Product Owner

- 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.

Stockholm, Sweden (Remote)

March 2022 – Present

Royal Institute of Technology (KTH)

B.Sc. in Computer Engineering.

Stockholm, Sweden

Expected June 2026

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