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Computer Engineering B.Sc. student at KTH (Expected June 2027) with hands-on experience in embedded systems, CI/CD infrastructure, and production .NET software. Experienced working in industry R&D environments and cross-functional teams. Seeking a Summer Software Engineering Internship with a focus on systems and backend development.

Education

Royal Institute of Technology (KTH)

B.Sc. in Computer Engineering.

Stockholm, Sweden

Expected June 2027

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Microcontrollers, Computer Networks, Databases

Projects

• FBG Interrogator (C#/.NET + C/FreeRTOS) – Industry R&D with Proximion AB

- Built a real-time PC host for live spectral visualization and peak analysis, enabling sub-millisecond sensor readout in lab trials (C#/.NET, FreeRTOS)
- Engineered a self-hosted Linux CI/CD pipeline using hermetic Docker containers to enforce linting, formatting, and build validation 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

- Designed and implemented 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 (Technical, Part-Time During Studies)

Stockholm, Sweden (Remote)

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.

Skills

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