

Summary

Final-year KTH Computer Engineering student and Technical Product Owner at Sevan AB with embedded and full-stack industry experience. Primarily interested in backend and systems engineering.
Available for a software engineering internship or thesis project from early 2027, ahead of graduation in June 2027.

Education

Royal Institute of Technology (KTH)

Stockholm, Sweden

B.Sc. in Computer Engineering

Expected June 2027

- **Relevant Coursework:** Data Structures & Algorithms, Distributed Systems, Operating Systems, Networks, Databases; graduate-level Embedded Systems. **Certifications:** CCNA, Cisco Network Security

Engineering Experience

Motillo AB

Stockholm, Sweden

Software Engineer (KTH Industry Course)

March 2026 – June 2026

- Reduced query times from 330 ms to ~20 ms over 4 million rows of monitoring/order history by combining PostgreSQL materialized views for historical rollups with live data.
- Built a React/TypeScript control interface for UptimeRobot monitors and Litium order ingestion with Entra ID authentication and support for legacy Chrome 76 kiosks.

Proximion AB

Stockholm, Sweden

R&D SWE Member (Selected University–Industry Project)

October 2025 – January 2026

- Built firmware for a 4-channel fiber-optic sensor interrogator prototype using FreeRTOS threads, non-blocking IPC, and an MCU-to-PC binary protocol with state-machine framing, sequence tracking, and CRC validation.
- Configured cross-platform GNU Make builds and self-hosted Linux CI/CD using hermetic Docker containers for reproducible builds and automated releases.

Other Professional Experience

Sevan AB

Stockholm, Sweden (Remote)

Technical Product Owner

March 2022 – Present

- Promoted to Product Owner, overseeing B2C platform growth from 4.5K to 200K users and migration of 300+ B2B accounts to e-commerce.
- Directed the roadmap, specified API schemas and data models, and coordinated development across external teams and vendors.

Selected Projects

Linduistics

Work in progress

- Built a phonetic engine with articulatory substitution costs, Floyd–Warshall to enforce the triangle inequality, and Numba-compiled weighted edit distance using linear-memory two-row buffers.
- Matched word meanings across five Germanic languages using Wiktionary translation links, similar spellings, and multilingual embeddings, preserving sense-level etymology and ambiguous matches.

Token Catalog

tokencatalog.dev

- Built a Material Design 3 component library kept in sync with Google’s design tokens, which are published only as lazily loaded (non-DTCG) payloads. A scheduled Go/Chromedp crawler captures them and detects changes. A pipeline then converts them to DTCG and compiles them with Style Dictionary into component CSS.
- Generates component styles for all 36 components and 5 style systems (including Expressive) from per-component token mappings, with coverage and omission reports so upstream gaps are exposed instead of silently failing. Releases publish only after hash-bound review, with atomic switchover and crash recovery.
- Made it usable by AI coding agents through MCP tools, OpenAPI, Markdown responses, and an installable skill, so they fetch exact token values instead of guessing. Scored 100/100 on all mobile PageSpeed categories, passed 4/4 agentic browsing checks, and scored 100/100 on Cloudflare’s agent discoverability checks (Oct 2026).

Technical Skills

Languages: C, C++, Java, Go, Python, TypeScript / Javascript, C#

Systems & Tools: Linux, FreeRTOS, Docker, CI/CD, GNU Make, Git, TCP/UDP, Chromedp

Web & Data: React, Spring Boot, ASP.NET Core, PostgreSQL, SQLite, Elasticsearch, ETL, Style Dictionary