Olle Marmenlind

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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

Experience

Sevan AB — Stockholm, Sweden (Remote)
Technical Product Owner — **March 2022 – Present**

- Oversaw B2C platform growth from 4.5K to 200K users and migration of 300+ B2B accounts to e-commerce.
- Directed the roadmap, specified and coordinated development across external teams and vendors.
- Built an internal React/TypeScript tool to automate B2B account onboarding and Klaviyo outreach, cutting manual work by 80% and speeding up onboarding by 50%.
- Built a React/TypeScript table- and graph-based design token editor (using MD3 components compiled from TokenCatalog's Forge pipeline) to author the company's token-based design system, integrated with Git and CI/CD for versioned releases.
- Built a Figma plugin for syncing design tokens into Figma, paired with a build toolchain that compiles tokens into Sass and CSS variables for engineering.

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.

Selected Projects

TokenCatalog — tokencatalog.dev

- Built a server-rendered Go/Templ + HTMX web service and Material Design 3 component library (Go/Templ and React) synced with Google's upstream tokens via a scheduled Chromedp crawler, DTCG converter, and Style Dictionary pipeline, with a parametric playground for every component.
- Engineered an immutable Go snapshot and publication pipeline with SHA-256 content-addressed storage, JSON Schema verification, and semantic diffing. Releases build a read-only SQLite index and activate via atomic switchover after hash-bound review, with failed-page retries and crash recovery.
- Made the catalog 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 across all mobile PageSpeed categories and Cloudflare agent discoverability checks, passing 4/4 agentic browsing checks.

Material Motion Lab — tokencatalog.dev/tools/

- Built a browser-based motion analysis tool for inspecting UI animations in video recordings and comparing measured displacement against Material Design 3 spring/easing curves or a second synced recording.
- Implemented client-side video decoding and subpixel object/edge tracking in TypeScript using FFmpeg WebAssembly, OpenCV.js, and Web Workers, with IndexedDB persistence and an optional Go/OpenCV CLI.

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: Spring Boot, ASP.NET Core, PostgreSQL, SQLite, Elasticsearch, Style Dictionary, HTMX, React