



Rikard Olsson

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About

Software developer specializing in combinatorial optimization and mathematical modeling for business-critical systems. Combining deep analytical thinking with technical leadership, I have led the development of global platforms that deliver measurable business value through improved scalability, automation, and decision-making.

Experience

Mio AB Lead Combinatorial Optimization Developer

Leading the replacement of legacy systems that have reached their practical limits in both performance and product complexity, applying combinatorial optimization, logical modeling, and scalable system design. The transformation is business-critical: without it, the product range simply cannot be sold at the scale the business is aiming for. The new foundation dramatically shortens time-to-market and optimizes throughput across every stage of the pipeline.

2025 - Present

Volvo Cars Mathematical Modeling & Similarity Analysis

Co-designed a novel similarity framework capable of combining heterogeneous data sources—including categorical, numerical, and textual attributes—into a unified similarity metric. Large Language Models (LLMs) formed a fundamental part of the solution, enabling rich semantic understanding of textual product data and allowing it to be integrated with structured attributes in a mathematically consistent way. The work addressed complex challenges related to bias, weighting, representation, and explainability across highly configurable products.

2023 - 2025

Volvo Cars Lead Developer Combinatorial Optimization

Led the development of a combinatorial optimization service for generating car configurations in Volvo Cars' global commercial configurator, used across all markets worldwide. The service's foundational techniques were derived from my 2019 master's thesis, which I further enhanced after graduation. This advanced solution replaced the legacy system during 2020-2021, delivering improved efficiency and adaptability for the global car configuration platform. The project was a resounding success—removing inefficiencies across the global configuration pipeline and delivering substantial cost savings for Volvo Cars as a company.

2019 - 2023

Education

M.Sc. Computer Science (Algorithms, Language & Logic)

Chalmers University of Technology, Gothenburg | 2017 - 2019

B.Sc. Software Engineering

Jönköping University | 2014 - 2017

Primary Language Skills

Rust & Python