



Robert Sirviö

Curriculum Vitae



Cloud and SaaS are my bread and butter. I take pride and enjoyment in owning the things I create - the ultimate measure of a solution's robustness, scalability and performance lies in its ability to withstand the test of time.

Employment

02/2024– **Principal Architect**, ANALYSE²

While still retaining a hands-on orientation, my transition into the Principal Architect role reflects a broader shift in focus—from Platform Engineering to a more comprehensive, application-wide architectural perspective. I have played a key role in evolving existing ecosystems; for instance, I conceived and implemented an end-to-end proof of concept for integrating a BI platform into one of our multi-tenant SaaS offerings, significantly reducing our time to market in an emerging product segment. I also play a key role in designing architectures and implementations for greenfield capabilities, as demonstrated by a project in which we are implementing an agentic AI solution to generate insights on customer and competitor positioning in the retail market, using multiple data sources both in-house and external.

08/2021–02/2024 **Cloud DevOps Architect**, ANALYSE²

As a Cloud DevOps Architect my main focus had a strong Platform Engineering flavor. Alongside extensive architectural planning and development for our Kubernetes and in-house GitLab platforms, my biggest initiatives were migrating from a single AWS account -setup to a multi-account structure and also evolving our batch based ETL pipeline to an event-driven one.

- The account transition required major reorganizations of our networking infrastructure and substantial automation efforts — for example account baseline automation and policy definitions. Today, new workloads are provisioned with new accounts through a GitOps workflow, and multiple existing workloads have been migrated to the new organizational structure.
- The ETL pipeline evolution involved designing and implementing a serverless architecture based on SNS, SQS, AWS Lambda, Step Functions, EventBridge and EKS, integrated with our consolidated observability platform (Datadog). Being reactive and event-driven has significantly improved our lead time from once-per-day to minutes at best.

Svinhufvudintie 7 B 36 – 00570, Helsinki

☎ +358 503002509 • ✉ robert.sirvio@alumni.helsinki.fi

- 01/2020–08/2021 **Software Team Lead**, ANALYSE²
 I wanted to focus on the people and process aspects of software development, making this team lead position a perfect fit. The team was a newly formed, cross-functional group of Data Scientists and Data Engineers. Initially, my role was primarily oriented on our processes and team formation. Despite the challenges of the pandemic, we developed effective methods for collaboration and planning, which improved team cohesion, predictability, and overall well-being. Over time, my focus shifted to mentoring and implementing cloud-native technologies.
- 02/2016–01/2020 **Full Stack Developer**, ANALYSE²
 I was working, as a part of an agile development team, on a highly responsive single-page web-application. The product is an assortment planning-, and pricing software aimed at different retail markets. The backend is implemented as an .NET Core REST API, whereas the frontend is built with an MVVM implementation resting Angular. I also was a part of our cloud guild focusing on migrating to a consolidated runtime platform on Kubernetes.
- 06/2015–09/2015 **Portfolio Management Associate**, ESTLANDER & PARTNERS OY
 The research for my master thesis was done for Estlander & Partners. The main topic was time series modelling of commodity futures utilizing Bayesian filtering algorithms. The objective was to quantify basis risk by simulating commodity spot price dynamics.
- 11/2014–02/2016 **Junior Full Stack Developer**, VALUATUM OY
 I worked as a part of a developer team developing a credit risk and equity research web application (provided as SaaS). Both the backend (Java and MySQL) and frontend (JSP and JavaScript) rely heavily on different frameworks. I have also familiarized myself with different automated unit-, and integration testing techniques and technologies.

Software Development Skills

- Languages** C#, TypeScript/JS, Bash, Python, SQL, HTML, CSS/LESS, \LaTeX
- Tech & FW** CDK, Terraform, CFN, Docker, K8s, Helm, Robot Framework, RFSwarm .NET, Angular, git
- Methodology** Platform Engineering, DevOps, GitOps, CI/CD, IaC, OOP, TDD, REST, Agile, Scrum
- OS/Platform** AWS, Azure, Snowflake, Datadog, Linux, Windows
- Database** PostgreSQL, SQL Server, Redshift

Education & Certifications

- 2025–2028 **AWS Certified Solutions Architect – Associate**
- 2020–2022 **Certified ScrumMaster™**
- 2014–2016 **Master of Science - Computer Assisted Mathematics**, *Helsinki University*
- 2010–2014 **Bachelor of Science - Mathematics**, *Helsinki University*

Languages

- Native** Swedish
- Excellent** Finnish English
- Basics** Japanese German