

## Experience

### Senior Software Engineer/Software Engineering Team Lead

Auterion AG Jun 2018 – Jun 2020 Zürich, Switzerland

- Architected and built an IoT fleet management and flight analysis platform from scratch
- Designed fleet performance dashboards and developer analysis tools together with end users
- Architected and built anomaly detection and predictive maintenance for drones with Data Scientists
- Bootstrapped the web frontend, the CI/CD pipeline, infrastructure, and production monitoring using StatsD and DataDog
- Responsible for recruiting and onboarding
- Tech stack: Vue.js, TypeScript, Node.js, Rust, C++, Python, PostgreSQL, Docker, AWS, Terraform, GoCD, Gitlab CI

### Promoted to a team lead starting from August 2019

- Managed three direct reports
- Had responsibility of hiring and onboarding new recruits
- Designed and helped HR to implement a new company wide interviewing practices
- Drove other teams and the company towards TDD practices
- Responsible of overall AWS / GCP cloud software architecture
- Participated in product management and customer communications
- Hands on daily

Work ended because the company had financial problems caused by COVID-19 and cancelled the project and laid off several people, including my team.

### Senior Software Engineer

Siroop AG Jan 2017 – Jun 2018 Zürich, Switzerland

- Feature lead on payment provider integrations
- Responsibility of payment provider integrations architecture
- Integrated the marketplace with Datatrans and ByJuno
- Implemented the foundation of the new search and product data pipeline using AWS Lambda, DynamoDB, Elasticsearch, Node.js
- Added production monitoring with StatsD protocol and DataDog
- Team OKR champion
- Reimplemented siroop.ch marketplace platform from scratch
- Tech stack: Python 3, Django, Flask, PostgreSQL, Node.js, DynamoDB, Lambda, Serverless, Elasticsearch, AWS ECS, Terraform, GoCD

## Skills

- **JavaScript/Node:** 12 years; Vue.js, Angular, Backbone, jQuery, Prototype, Express, Webpack, Gulp, Jasmine, Karma, etc.
- **Python:** 4 years; Django, Flask, Sanic, SQLAlchemy, werkzeug, CPython, PyPy, etc.
- **Rust:** 2 years; Rocket, actix-web, grpcio, diesel
- **C#:** 5 years; ASP.NET, .NET Core, Entity Framework, nHibernate
- **PHP5+:** 5 years
- **C++/Qt4:** 2/3 years pro/uni
- **Ruby, Go, VB, F#, Clojure:** some work/hobby
- **Java:** 3 years uni
- **HTML/CSS:** 15+ years
- **Bash/Unix:** 15/10 hobby/pro
- **PostgreSQL:** 6 years
- **MySQL:** 5 years
- **MSSQL / Azure SQL:** 5 years
- **DynamoDB:** 1 year
- **Servers / IaC:** 5 years; Terraform, ARM
- **CI/CD:** 10 years; Jenkins, CircleCI, Travis, GitLab CI, GitHub Actions, GoCD
- **Docker:** 4 years
- **AWS:** 5 years; EC2, ECS, ASG, ELB, RDS, EFS, EBS, IAM, DynamoDB, Lambda, Backup, etc.
- **Azure:** 3 years; Web Pages, Azure SQL, Azure AD, DocumentDB, Functions, etc.

## Languages

- Finnish - Native
- English - Fluent
- German - B1

## Azure Developer / Architect

Kompozure Ltd      Apr 2015 – Dec 2016      Helsinki, Finland

- Worked directly with a customer to build an invoice processing app using Azure PaaS and C# .NET Core, Azure SQL, Service Bus, Redis, Angular.js
- Architected and built a hybrid on-premise / Azure message broker with hot swappable components using C#, MEF, RabbitMq, Azure Service Bus for a client who produces public transportation ticket payment systems
- Provided software architecture consultation for companies who were migrating to Azure
- Frequently used Azure services: Web Apps, SQL, DocumentDB, Blob Storage, Cache, Service Bus, Service Fabric, AD, Functions, Monitor, ARM

## Senior Software Engineer

Transfluent Ltd      Dec 2013 – Apr 2015      Remote, Finland

- Built a translation automation backend with a public API
- Implemented an open source Ruby SDK for the API
- Designed the architecture and roadmap for monolith to microservice migration together with the CTO
- Tech stack: PHP5, Ruby, Angular.js, MySQL, PostgreSQL, AWS Elastic Beanstalk

## Software Engineer / DevOps

Sympa Ltd      Apr 2011 – Dec 2013      Lahti, Finland

- Built an HR app for large businesses and government organizations
- Automated code review and CI processes
- Facilitated move from Visual SourceSafe to Git
- Worked on automating the deployment process
- Tech stack: C#, F#, ASP.NET, nHibernate, MSSQL, IIS, JavaScript, CoffeeScript, Backbone.js

## Co-founder / CTO / Chairman of Board

Neovica Ltd      Dec 2008 – Mar 2016      Lahti, Finland

- Co-founded the company with the idea of providing a continuous improvement solution for factories.
- As the technical part of the founders, I built the company product alone for two years before we were able to hire personnel.
- Stepped aside from the operative side in 2011 because I lost faith in the idea and our capability to execute it. I helped the other co-founder part-time until I sold my share in 2016.
- Tech stack: Linux, Apache, MySQL, PHP5, C++/Qt4

## Education

### Lahti University of Applied Sciences – Lahti, Finland

Bachelor of Engineering, Software Technology, 2005–2010

## Other Interests

I enjoy exploring the great outdoors on my motorcycle. I spend a significant amount of my free time in the mountains, hiking in the summer and skiing in the winter. I also occasionally play board games and computer games.

## Links



GitHub

<https://github.com/ilari-makimattila>



LinkedIn

<https://www.linkedin.com/in/ilari-makimattila/>



HackerRank

<https://www.hackerrank.com/ilari>



Instagram

<https://www.instagram.com/ilarimakimattila/>

Available online at

<https://ilari-makimattila.github.io/CV/>