

# Ilari Mäkimattila

Cloud Software Engineer, Architect, DevOps

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## Experience

### Lead Software Architect

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Nov 2020 Zürich, Switzerland

- Leading the technical effort on the event management platform
- Wearing multiple hats: SWE, DevOps, Architect/Principal SWE, etc.
- Mentoring and leading team members
- Migrated the app from a monolith in a single VM to cloud native event driven microservices running on Kubernetes and cloud functions, saving up to 40% in operating costs
- Introduced CI/CD, saving hours of fortnightly work time
- Introduced observability, monitoring, and alerting
- Introduced DORA metrics
- Tech stack: Python, Rust, TypeScript, PostgreSQL, Firebase, Docker, Kubernetes, GCP, Terraform, Gitlab CI

### Senior Software Engineer/Software Engineering Team Lead

Auterion

Jun 2018 – Jun 2020 Zürich, Switzerland

- Managed three direct reports, hired new recruits
- Designed company wide interviewing practices
- Architected and built an IoT fleet management and flight analysis platform from scratch
- Designed analysis dashboards and tools with end users
- Architected and built anomaly detection and predictive maintenance for drones
- Bootstrapped the project, the CI/CD, infrastructure, and monitoring
- Tech stack: Vue.js, TypeScript, Node.js, Rust, C++, Python, PostgreSQL, Docker, AWS, Terraform, GoCD, Gitlab CI, DataDog

### Senior Software Engineer

Siroop

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 search and product data pipeline using AWS Lambda, DynamoDB, Elasticsearch, Node.js
- Tech stack: Python, Django, Flask, PostgreSQL, NodeJS, DynamoDB, Lambda, Serverless, Elasticsearch, AWS ECS, Terraform, GoCD

✓ Cloud Software Engineer with experience in more than a dozen projects since 2002.

✓ Full stack polyglot and DevOps engineer

✓ Passionate about Continuous Deployment

## Skills

- **Python:** 6 years; Django, Flask, FastAPI, etc.
- **Rust:** 4 years; Rocket, actix-web, grpcio, diesel
- **C#:** 5 years; ASP.NET, .NET Core, Entity Framework
- **Bash/Unix:** 15+ years
- **HTML/CSS:** 15+ years
- **JavaScript/Node:** 10+ years; Vue.js, Angular, jQuery, Express, Webpack, etc.
- **PHP5+:** 5 years
- **PostgreSQL:** 10+ years
- **MySQL:** 5 years
- **MSSQL / Azure SQL:** 5 years
- **Servers / IaC:** 8 years; Terraform, ARM
- **CI/CD:** 10+ years; Jenkins, CircleCI, Travis, GitLab CI, GitHub Actions, GoCD
- **Docker:** 6+ years
- **AWS:** 5 years; EC2, ECS, ASG, ELB, RDS, EFS, EBS, IAM, DynamoDB, Lambda, etc.
- **Azure:** 3 years; Web Pages, Azure SQL, Azure AD, DocumentDB, Functions, etc.
- **GCP:** 3 years; GKE, PubSub, Firebase, Cloud SQL, IAM, etc.

## Azure Developer / Architect

Kompozure

Apr 2015 – Dec 2016

Helsinki, Finland

- Worked directly with a customer on an invoice processing app using Azure PaaS and C# .NET Core, 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 public transportation ticket payment systems
- Provided Azure cloud software architecture consultation
- Frequently used Azure services: Web Apps, SQL, DocumentDB, Blob Storage, Cache, Service Bus, Service Fabric, AD, Functions, Monitor

## Senior Software Engineer

Transfluent

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 to microservice migration
- Tech stack: PHP5, Ruby, Angular.js, MySQL, PostgreSQL, AWS Elastic Beanstalk

## Software Engineer / DevOps

Sympa

Apr 2011 – Dec 2013

Lahti, Finland

- Built an HR app for large businesses and government organizations
- Automated code review and CI processes
- 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

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. Advised the company 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

## Languages

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

## 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)

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

 [LinkedIn](https://www.linkedin.com/in/ilari-makimattila/)

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

 [HackerRank](https://www.hackerrank.com/ilari)

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

 [Instagram](https://www.instagram.com/ilarimakimattila/)

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

## Personal Data

- Date of Birth: 18.09.1984
- Civil status: single
- Nationality: Finnish
- Residence permit: B

Available online at

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