Ilari Mäkimattila
Cloud Software Engineer, Architect, DevOps

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Allmendstrasse 158, 8041 Zürich, Switzerland

Experience

Lead Software Architect

evenito   Nov 2020 Zürich, Switzerland

- Leading the technical effort on the virtual/hybrid events platform
- Wearing multiple hats: SWE, DevOps, Architect/Principal SWE, etc.
- Migrated production environment from a monolithic app running on a single machine to cloud native microservices running on Kubernetes, saving up to 40% in operating costs
- Introduced continuous delivery for automated deployments, saving hours of fortnightly work time
- Tech stack: Python, Rust, TypeScript, Cloud PostgreSQL, Redis, Firebase, Docker, GCP, Terraform, Gitlab CI

Senior Software Engineer/Software Engineering Team Lead

Auterion   Jun 2018 – Jun 2020 Zürich, Switzerland

- 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

Promoted to a team lead starting from August 2019

- Managed three direct reports, hired new recruits
- Designed 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

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 3, Django, Flask, PostgreSQL, Node.js, DynamoDB, Lambda, Serverless, Elasticsearch, AWS ECS, Terraform, GoCD

Skills

- **Python**: 6 years; Django, Flask, Sanic, SQLAlchemy, werkzeug, CPython, PyPy, etc.
- **Rust**: 4 years; Rocket, actix-web, grpcio, diesel
- **C#**: 5 years; ASP.NET, .NET Core, Entity Framework, nHibernate
- **Bash/Unix**: 15+ years
- **HTML/CSS**: 15+ years
- **JavaScript/Node**: 10+ years; Vue.js, Angular, Backbone, jQuery, Prototype, Express, Webpack, Gulp, Jasmine, Karma, etc.
- **PHP5+**: 5 years
- **Ruby, Go, VB, F#, Clojure**: some work/hobby
- **PostgreSQL**: 8 years
- **MySQL**: 5 years
- **MSSQL / Azure SQL**: 5 years
- **Servers / IaC**: 7 years; Terraform, ARM
- **CI/CD**: 10+ years; Jenkins, CircleCI, Travis, GitLab CI, GitHub Actions, GoCD
- **Docker**: 5+ 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.
- **GCP**: 2 years; GKE, PubSub, Firebase, Cloud SQL, IAM, etc.

Languages

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

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 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-mäkimattila/

HackerRank
https://www.hackerrank.com/ilari

Instagram
https://www.instagram.com/ilarimakimattila/

Available online at
https://ilari-makimattila.github.io/CV/