

Arto Mulkahainen

Software Architect · Cloud Architect

arto@mulkahainen.me



Arto is a results-driven software professional with a solid DevOps and architectural mindset. With a background in Finnish social services and the music scene, he has gained extensive experience in software development, software architecture, and leadership across various projects. On top of that, he is an AWS-certified cloud architect, bringing strong expertise in designing scalable, secure cloud solutions.

Passionate about problem-solving, Arto is committed to writing clean, maintainable code. Constantly striving for improvement, he leverages cutting-edge technologies to achieve excellence in both personal and client-driven pursuits, whether as a software architect, cloud architect, or senior software developer.

SKILLS

Frontend development

Backend development

Linux & Bash scripting

Infrastructure

Software architecture

Documentation skills

Accessibility awareness

UI/UX design

AI Tools

TECHNOLOGIES & TOOLS

TypeScript	~5.5 yrs	React.js	~5.5 yrs
Docker	~5.5 yrs	CI/CD	4 yrs
Java	~3 yrs	Spring Boot	~3 yrs
AWS	3 yrs	Node.js	~2.5 yrs
Kubernetes	~1.5 yrs	GCP	~1.5 yrs
React Native	~1 yr	Azure	7 mo
Next.js	1 mo	PostgreSQL	~5.5 yrs

CERTIFICATIONS

AWS Certified Solutions Architect – Professional	10/2025 – 10/2028
AWS Certified Solutions Architect – Associate	09/2024 – 10/2028

LANGUAGES

Finnish	Native
English	Good
Swedish	Basic

Elenium Oy — Software Architect / Cloud Architect

A solution for measuring actions aimed at climate goals across various organizations

AUG 2026 – PRESENT

Architected a serverless solution for measuring climate-goal actions across various organizations, leveraging the serverless architecture to reduce infrastructure costs, while continuing in a supporting role on previous client projects. Coding agents were heavily involved in the projects.

TypeScript, React.js, Node.js, Azure SQL Serverless, Azure Functions, Azure Front Door, Azure APIM, Azure Key Vault, Azure Private Link, Azure VNet, Azure Monitor, Azure Bicep, AWS CDK, AWS EC2, AWS ECS (Fargate), AWS ECR, AWS Aurora Serverless, AWS CloudFront, AWS S3, AWS Lambda, AWS EventBridge, AWS SNS, AWS WAF, AWS IAM, AWS Secrets Manager, GitLab, GitHub Actions, Bash scripting, Docker, Cursor

Two separate projects for two different public sector organizations

FEB 2026 – JUL 2026

Led two concurrent engagements (50/50) for distinct public sector clients, driving architecture and development of an invoicing platform and a fully serverless legislative solution for lawmakers; both targeted for fall 2026 release. On both projects, coding agents were heavily involved throughout development.

TypeScript, React.js, NestJS (Node.js), PostgreSQL, AWS CDK, AWS EC2, AWS ECS (Fargate), AWS ECR, AWS Aurora Serverless, AWS CloudFront, AWS S3, AWS Lambda, AWS EventBridge, AWS SNS, AWS WAF, AWS IAM, AWS Secrets Manager, AWS DynamoDB, GitLab, GitHub Actions, Bash scripting, Docker, Cursor

GIS App Project for Public Sector Organization

JUL 2024 – JAN 2026

Led a project for Public Sector Organization to rebuild an application from scratch, replacing an outdated solution with performance issues. Focused on improving efficiency, Arto architected the software and cloud infrastructure, mentored developers, and successfully executed an extensive data migration from on-premise to AWS Cloud. The first release was launched in March 2025.

TypeScript, React.js, NestJS (Node.js), PostgreSQL, PostGIS, AWS CDK, AWS EC2, AWS ECS (Fargate), AWS ECR, AWS Aurora Serverless, AWS ElastiCache (Valkey) Serverless, AWS CloudFront, AWS S3, AWS Lambda, AWS EventBridge, AWS SNS, AWS WAF, AWS IAM, AWS Secrets Manager, GitHub Actions, Linux, Bash scripting, OpenLayers, Docker

Elenium Oy — Software Developer

An app designed to identify mental health problems

DEC 2023 – JUN 2024

Led the development of a solution aimed at supporting clients facing mental health challenges. Entrusted with the dual roles of software architect and lead developer, responsible for the end-to-end creation of the app, designing the cloud infrastructure, and managing the development pipelines. The app had its first release in spring 2024.

TypeScript, React.js, Express.js (Node.js), PostgreSQL, Azure DevOps, Azure App Service, Azure Front Door, Azure Functions, Azure Key Vault, Azure Blob Storage, Azure Virtual Network, Azure VMs, Azure Bastion, Azure Monitor, Azure Databases for Postgres, Auth0 by Okta, OAuth2, OIDC, Docker

Omasuuntima — social and healthcare application

APR 2022 – NOV 2023

Developed a new application in Digifinland's project, tailored for the social and health sector. The scope ranged from full-stack development to managing DevOps workflows and working with cloud infrastructure in GCP. Also took charge of integrations to external APIs, including the Suomi.fi authentication API and the Suomi.fi 'Act on behalf of a person' API.

TypeScript, Java, React.js, Spring Boot, Docker, Kubernetes, PostgreSQL, GitHub Actions, GCP IAM, GCP GKE, GCP Cloud Monitoring, GCP Cloud KMS, GCP Cloud SQL, GCP Artifact Registry, Keycloak, OAuth2, OIDC, SAML2

T:mi Arto Mulkahainen — Software Developer

Vanno — e-commerce store project

APR 2022 – MAY 2022

Worked as a subcontractor for Coodeis Oy in 2022, contributing as lead frontend developer while concurrently holding my primary position at Elenium Oy. The project ran from 2022 to 2023, during which I accumulated approximately one month of hands-on work.

TypeScript, Next.js

myneva Finland Oy (former Fastroi Oy) — Junior Software Developer

Real Time Care — homeware product

JAN 2021 – MAR 2022

Contributed as a software developer on a homeware product, implementing new features and addressing bugs in existing production software.

TypeScript, Java, React.js, React Native, Spring Framework, PostgreSQL, AWS EC2, AWS RDS, AWS IAM, Kibana, Docker

EDUCATION

Bachelor of Business Administration (UAS)	In progress, est. 2027
Vocational degree in ICT	2021
Vocational degree in audio engineering	2017
Bachelor of Social Services (UAS)	2013
Matriculation examination	2009