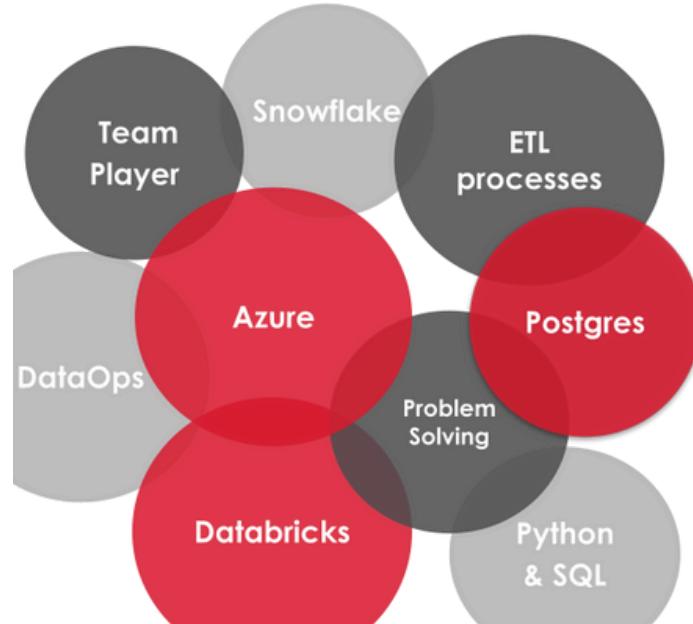


# ANTTI-JUHANA MÄKI

## SENIOR DATA ENGINEER, D.S.C. (TECH.)

### About Me

Passionate and experienced data guy with a strong mathematical modeling and control engineering background. Building resilient data solutions as a Senior Data Engineer at Siili. Main tools are **Azure** (especially **ADF** and Azure DevOps), **Databricks** (PySpark), **Python**, and **SQL**.



### Contact

**Phone:** +358-40-7364613

**Email:** maki.antti.j@gmail.com

**Location:** Tampere, FINLAND

LinkedIn: [@Antti-Juhana Mäki](#)

GitHub: [AnaHill work portfolio](#)

ORCID iD: [0000-0001-7565-3530](#)

Google Scholar [profile](#)

Doctoral dissertation available [here](#)

**References** available on request

### Expertise & Skills

#### Data engineering and analysis

- Azure, ADF, Databricks, PySpark, Python, SQL, MATLAB, Snowflake, Crosser, ADE, Docker, git, Azure DevOps

#### Modeling & Simulation

- FEM (COMSOL), MATLAB & Simulink

#### Other

- MCP Architecture, Azure AI Search
- Miro, Obsidian+Excalidraw
- Bash, PowerShell, MS Office, LaTeX, Markdown
- control engineering, microfluidics

### Experience

#### Data Engineer, Siili 2026/02 – Present

Working primarily in Azure, with a growing focus on Microsoft Fabric and GenAI topics including MCP architecture, ontology-driven AI systems, and semantic search, emphasizing data quality and governance.

#### In-house Accelerator Tech Lead & Architect, Solita 2025/09 – 2026/01

Led an in-house agent-based (MCP server) innovation and development team of seven members, serving as Technical Lead, Project Manager, and Scrum Master while collaborating closely with cross-functional stakeholders. Designed the MCP Reference Architecture for internal GenAI accelerators.

#### Data Engineer, Solita 2023/03 – 2026/01

Worked mainly in Azure. Customers were Finnish private companies (energy and Industrial IoT sectors), Football Association of Finland, and Public sector organizations. I also worked with Snowflake, Crosser, git, Docker, ADE, and Fabric.



# Language

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**Finnish:** Mother tongue

**English:** C2 (full professional working proficiency)

**Swedish:** A2

**German:** A1

**Mandarin:** A1

# Certifications

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More information in [Credly](#).

## Azure

AI Fundamentals (AI-900)

Data Fundamentals (DP-900)

Azure Fundamentals (AZ-900)

## Databricks

Databricks Certified Data Engineer Associate

## Agile Data Engine

Agile Data Engine for Data Engineers

## AWS

AWS Certified Cloud Practitioner

## Scrum

Professional Scrum Master™ I (PSM I)

# Experience

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## Data Engineer, Futurice 2022/10 – 2023/02

Intensive five months of learning (e.g. 5 certs), and customer work in retail industry, handling their operational data using Azure (especially ADF), PostgreSQL, Databricks, and Python.

## Postdoc, Tampere University (TAU) 2019 – 2022/10

Data analysis & machine learning, control engineering, and mathematical modeling. Additionally, led a group of researchers developing novel in vitro cell culture solutions for vascularized 3D cell co-cultures studies under Professor Pasi Kallio's Micro- and Nanosystems Research Group.

## Doctoral Researcher, Tampere University of Technology (TUT) 2011–2018

Developed control systems for autonomous cell cultivation platforms, along with extensive mathematical modeling using COMSOL (FEM) and MATLAB/Simulink.

# Education

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## 2018/09 Doctor of Science (Technology)

Tampere University of Technology, Tampere, Finland,  
title: "Modeling and control of microscale cell culture environments", available [here](#).

## 2010/07 Master of Science (Technology) "with distinction", Tampere University of Technology, Tampere, Finland Major: Automation and Control

## 2006–2007 Student exchange

Hong Kong Polytechnic University

## 2002 Matriculation Examination

Seinäjoki Upper Secondary School

# Merits & Hobbies

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## Solita Connected Data Clippy Award, 2024

- For person who is always helping and sharing knowledge

## Invention disclosures

- TKS0222021 MEA-signaalien analyysityökalu ("MEA analysis tool"), granted 05/2021
- TKS0612020 Pilarivapaa 3D monisolukasvatuschippi ("Barrier-free 3D co-culture chip"), granted 06/2020.

## Member of the Organizing Committee

Nordic Organ on a Chip Symposium 08/2019

## Finnish military rank

Second lieutenant

## Hobbies

Football, reading, cross country skiing, orienteering