

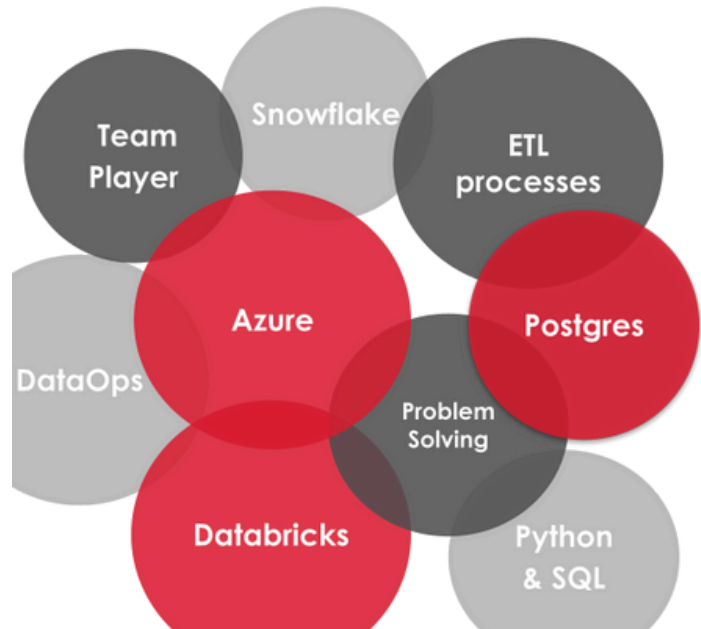


ANTTI-JUHANA MÄKI

DATA ENGINEER, D.SC. (TECH.)

About Me

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



Contact

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GitHub: [AnaHill work portfolio](#)

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Google Scholar [profile](#)

Doctoral dissertation available [here](#)

References available on request

Expertise & Skills

Data engineering and analysis

- Azure, ADF, DevOps, Databricks, PySpark, Python, SQL (PostgreSQL, T-SQL), MATLAB, Snowflake, ADE, Docker, git

Modeling & Simulation

- FEM (COMSOL), MATLAB & Simulink

Other

- Bash, PowerShell, MS Office, LaTeX, Markdown
- control engineering, microfluidics

Experience

Data Engineer, Solita 2023/03 – Present

Working mainly in Azure. Customers have been Finnish private companies (energy and Industrial IoT sectors), Football Association of Finland, and Public sector organization. I also have experience with Snowflake, git, Docker, ADE, and Fabric.

Data Engineer, Futurice 2022/10 – 2023/02

My career shift was intensive five months of learning (resulting 5 certifications), and customer work in retail industry, handling their operational data using Azure (especially ADF), PostgreSQL, Databricks, and Python.

Postdoctoral Research Fellow, Tampere University (TAU) 2019 – 2022/10

Data analysis & machine learning (using MATLAB), 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 research team.

Language

Finnish: Mother tongue

English: C2 (full professional working proficiency)

Swedish: A2

German: A1

Mandarin: A1

Certifications

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

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

Developed control systems for autonomous cell cultivation platforms. Also, more than enough ;) mathematical modeling using COMSOL/FEM (finite element method) based approach and MATLAB&Simulink.

Education

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

Solita Connected Data Clippy Award, 2024

- For person who is always helping and sharing knowledge

Invention disclosures

- TKS0222021 MEA-signaalin 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