

# Juho-Pekka Mäkinen

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## Education

### University of Jyväskylä

*Master's Program in Mathematical Information Technology*

August 2021 - Ongoing

*Jyväskylä*

### JAMK University of Applied Sciences

*Web Developer, 30 ECTS credits*

September 2020 - May 2021

*Jyväskylä*

### Laurea University of Applied Sciences

*Bachelor of Nursing*

September 2007 - November 2011

*Tikkurila*

## Work Experience

### Telia Finland, Data and Analytics IT

*Summer Trainee, Platform engineering*

April 2025 - September 2025

- Explored how AI could support data lineage creation to support migration from legacy systems to new systems
- Monitored and maintained the performance of Kubernetes clusters and CI/CD pipelines used in the platform environment
- Supported the platform engineering team to improve automation and integration processes

### Social and Healthcare Services

*Freelance/Permanent Employee*

August 2011 - December 2024

- Worked as a registered nurse providing patient care and served as the unit's IT support person for staff
- Managed patient information system access rights and provided basic operating system support to colleagues

## Projects

### Cloud Resume | *Next.js, Azure, Terraform, GitHub Actions*

- Developed my resume using serverless architecture
- Implemented Infrastructure as Code (IaC) and CI/CD pipeline

### My CustomLM | *Python, PyTorch*

- Implemented a transformer-based language model, including attention mechanism and positional encoding
- Integrated OpenAI's TikToken tokenization (cl100k\_base)

### Interpreter | *Python*

- Developed a programming language interpreter, including lexer, parser, and evaluator
- Added support for variables, functions, data structures, and higher-order function features

## Technical Skills

**Programming Languages:** Python, JavaScript, TypeScript, SQL, PL/SQL, HTML/CSS

**Frameworks & Libraries:** React, Next.js, Flask, Tailwind CSS

**Databases:** MySQL, Oracle

**DevOps & Cloud:** Git, GitHub Actions, Kubernetes, Docker, Rancher, Azure, Airflow

**Data & Analytics:** Apache Spark, KNIME, DataHub

**Operating Systems:** Linux, Windows

## Certificates

Google Cybersecurity Certificate

October 2024

Microsoft IT Support Specialist Certificate

September 2024

## Language Skills

**Finnish:** C2 - Native

**English:** C1 - Excellent