



Petri Luukkonen

Full-stack developer, Data Scientist

PROFILE

Experienced full stack software developer with interest toward front end development of data centric apps and data visualizations. Petri has acquired experience from both academic research and industry knowledge of web app development.

EXPERIENCE

+358 45 *** ****

Keski-Uusimaa

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<https://pesalu.github.io/petri-luukkonen-profile/>

EDUCATION

M.Sc University of Helsinki
Faculty of Science
Department of Mathematics and Statistics
(9/2012 – 3/2016)
Major: Applied mathematics
Minor: Computer Science and Pedagogics
Master's Thesis: Learning Image Dictionary using Non-negative Matrix Factorization and K-SVD


B.Sc University of Helsinki
Faculty of Science
Department of Physics
(8/2006 - 8/2012)
Major: physics, computational physics
Minor: mathematics and theoretical physics
Bachelor's Thesis: Atomistic Simulation of Irradiation-Induced Cross linking in Matter

SKILLS


Programming Languages	Frameworks	Cloud
Java	Back-end	Azure
Python	Spring Boot	AWS
Typescript	ExpressJS	
Javascript	Front-end	OS
CSS	React	Linux
SQL	Angular	Windows
Bash	AngularJS	
Powershell		

CERTIFICATES / COURSES


 [Microsoft Certified: Azure Administrator Associate \(2022\)](#)

 [Microsoft Certified: Azure Data Scientist Associate \(2021\)](#)

 [Microsoft Certified: Azure Fundamentals \(2021\)](#)

 [Enriched Web Development with Angular 11 \(2021\)](#)

 [Fundamentals of Scalable Data Science Apache Spark \(2021\)](#)

 [Helsinki University: Full-stack Development \(React, Node Express, MongoDB\) \(9 ects\) \(2020\)](#)



today, Full-stack developer (1/2023 - current)

- development of both front- and back-end sides of web applications

Tech. stack: Angular, RxJS, Spring Framework, Docker, MSSQL, Java, Typescript, Tailwind CSS



QPR, Software Developer / Cloud Engineer (3 - 9/2022)

- Front-end development of QPR Metrics UI Dashboards
- Deployment of new and existing solutions to Azure cloud
- Practicing cloud infrastructure management at Azure, (Saranen Azure Academy training program, 6 months)
- Successful Azure Certification (AZ-104, Azure Administrator)
- Training on Power Platform for creating Data Model driven apps / Canvas apps

Tech. stack: Javascript, jQuery, Highcharts, CSS, Azure VM, VNets, Storage, Az CLI, IaC via bash scripts, Power Platform



CGI, Data Developer (6 - 10/2021)

- Back-end software development
- Specialization to data centric application development by applying machine learning and data analysis techniques

Tech. stack: Azure ML Studio, Azure Databricks, Azure Storage, Spring Framework (Java), Python, Jupyter Notebook



Zeroni Oy, Full-stack Developer (9/2017 - 5/2021)

- Full stack development of Zeroni, a SaaS for managing construction sites from the areas of supply chain management, approval processes, access control and safety ([check here](#)).
- Data pipeline and visualization development using AWS

Tech. stack: Java, Javascript, Python, Spring Framework, Hibernate, PostgreSQL, Liquibase, AngularJS, Liquibase, Bash-script, Atlassian Bitbucket, Git, AWS (S3, KMS, IAM, Glue, CDK, Athena, QuickSight), Apache Spark, Docker



Helsinki Institute of Information Technology (HIIT), Research Assistant, **Re:Know** (6/2015 - 8/2016)

- Implementing a system for pro-active information retrieval for a text writing scenario (POC).
- Carrying user studies, and analysing user activity data
- Testing suitable ML algorithms with simulations (LinRel ja LSTM) for keyword enrichment of search queries
- Producing two scientific publications [\[1\]](#), [\[2\]](#)

Tech. stack: Python, Scipy, Gensim (NLP-kirjasto), Tensorflow, PyQt, Bash, Git, LaTeX



Helsingin Yliopisto, Division of Materials Physics, Research Assistant (6/2008 - 8/2010)

- Molecular dynamics simulations of radiation processing of polyethylene and cellulose
- Writing scripts for performing atomistic simulations and analyzing the produced data
- Testing several atomistic interaction models developed for organic compounds
- Construction of the atomic structures of polyethylene and cellulose and analyzing structure changes. Producing one publication [\[3\]](#)

Tech. stack: : C++, VMD (Visual Molecular Dynamics), Awk, Bash, RasMOL, GnuPlot, LaTeX