

Tero Juhani Keski-Valkama, MSc

Hacker / Machine Learning Generalist / Innovator in Software

25+ years of experience in software engineering, machine learning and leadership

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Recommendations available in [LinkedIn](#).

Degrees

Master of Science (technology)

Tampere University of Technology,
2008

Major:

Software Engineering

Minor:

Technical Mathematics

6 months of international studies:

Universiti Sains Malaysia

Postgraduate studies

Tampere University of Technology

Subject:

Deep learning: Applying modern machine learning to
industrial log anomaly detection

Minors:

Learning systems

Signal processing

Publications

Procedia Computer Science, December 2017:

["A Simulator for Event-oriented Data in Flexible Assembly
System Fault Prediction"](#)

Master's thesis:

["Carbook: A Platform for Mobile Automotive Services"](#)

25 patents, several white papers, scientific and corporate
blog articles. 327 stars on GitHub.

Awards & achievements

1st place in Kaiko Foundation Model Internals Hackathon, 2023

1st place in #IndustryHack / #CargoHack at #HackTheSea at
MacGregor, 2016

3rd place in #SpaceTyckiting @Futurice, 2016

1st place in #IndustryHack at #HackTheFactory at Fastems, 2015

2nd and final online round in Facebook Hacker Cup 2011 (placed
182th)

3 customer satisfaction awards (Nice-business Solutions Oy,
2009, 2010, 2011)

13 invention awards (Elektrobit, HERE Technologies)

Work experience

Day Jobs	Side Hustles
<p><u>Kaiko.ai</u> Staff Machine Learning Engineer 2023-09- – Las Gabias, Spain Instructable foundation models for oncology. Data refinery concept, recursive self-improvement over human-level objectives. Electronic health record processing, multimodal models of radiology, pathology and genetics.</p> <p><u>Alloy.ai</u> Staff Software Engineer 2022-05-11 – 2023-08-14 Benalmádena, Spain Improving consumer goods supply chain analytics, planning and execution. Infrastructure and AI/LLMs. Implemented performance analytics in Elasticsearch. Decreased the BigQuery infrastructure query costs by 52%, latencies by 4.94 s. Spearheaded the LLM chatbots features.</p> <p><u>HERE Switzerland GmbH</u> Lead ML & AI engineer 2018-07-01 – 2022-04-30 Wollishofen, Zürich, Switzerland AI and machine learning. Deep reinforcement learning. Geolocation, maps.</p>	<p><u>Nedu AI</u> Advisor 2023-06 – (part-time) Las Gabias, Spain Edutech and recruitment platform with LLM based AIs.</p> <p><u>TerraScape AI</u> Advisor 2024-05 – 2025-02 (part-time) Las Gabias, Spain Building information management and automated coding.</p> <p><u>Sentido Emotions Technologies Ltd & Sentido X-Tech Ltd</u> Chief Technology Officer (CTO), partner 2018-03-15 – 2019-01-11 (part-time) Finland Systems and architectures, artificial intelligence, deep learning, signal processing, embedded and mobile devices</p> <p><u>AI Morning</u> Organizer 2017-10-01 – 2018-10-05 (part-time) Tampere, Finland Being one of the main organizers of AI Morning (http://aimorning.fi), with over 100 guests in each event</p> <p><u>Neter</u> Founder 2009-03-01 – 2023-12-01 (part-time) Finland Deep learning, modern web technologies consulting, TensorFlow, node.js, Ionic, Phaser, Cordova</p>

Cybercom Finland Oy

Software architect, advisory consultant, speaker, organizer

2012-12-03 – 2018-06-30

Tampere, Finland

Machine learning, blockchain, Machinebook, industrial processes, suomi.fi, National Service Bus, web technologies, JavaEE, node.js, docker

Nice-business Solutions Oy

Technical architect

2009-07-22 – 2012-11-30

Tampere, Finland

Modern web technologies consulting, enterprise systems, ScrumMaster, assistant project manager, sales support

Elektrobit Oyj

Design engineer / Research Engineer

2007-08-27 – 2009-07-22

Tampere, Finland

DSP software development and testing, Next generation internet infrastructure for context-sensitive services in car environment, Semantic Web

Finnpos Systems Oy

Project manager

2005-04-11 – 2006-11-24

Tampere, Finland

Project responsibility, scheduling, architectural design, and programming for the Finnpos F2 payment terminal, Linux kernel driver for LG USB touchscreen, VoIP system using Speex-codec.

Finnish Air Force

Air Force Weather Corporal

2002-01-01 – 2003-01-01

Finland

Military training, leadership training, squad leadership, flight weather observation, METAR/SYNOP weather data.

Kurikan Kaupunki

Information Technology Course Teacher

2001-06-01 – 2001-06-30

Kurikka, Finland

Taught 10-14 year-old students Java programming and basics of computing.

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Information Technology Course Teacher

1999-06-01 – 1999-06-30

Kurikka, Finland

Taught 10-14 year-old students Java programming and basics of computing.

Kurikan Ryhti

Web Developer / 3D Video Modeller / Print Advertisement Designer

01-01-1999 – 01-01-2001 (part-time)

Kurikka, Finland

Developed a web site and video/print ads.

Turvapalvelu M. Savela Ky

Accounting Software Engineer

01-01-1998 – 01-01-1999 (part-time)

Kurikka, Finland

Accounting software customization. Database programming. Billing, accounting.

Positions of trust

HERE Technologies: Patenting Mentor, 2020 – 2022

HERE Technologies: Machine Learning Competitions Organizer, 2020 – 2022

HERE Technologies: Site Representative, Switzerland, 2020 – 2022

Coursera / Princeton University, Bitcoin and Cryptocurrency Technologies: Mentor, 2017 – 2018

Cybercom Finland Oy, Machine Learning guild: Guildmaster, 2016 – 2018

Cybercom Finland Oy: Vice Representative of Employees in the Corporate Board, 2015 – 2018

Polyamoria – Tampere: Organizing monthly meet ups for ~160 members, 2014 – 2018

Condominium Malminkallio: Deputy Member of the Board, 2011

Roboteam: Vice Chairman, 2005

Language skills

Finnish: mother tongue

English: fluent

Spanish: good

Swedish: good

Japanese: basics

German: basics