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
Kaiko.ai **Staff Machine Learning Engineer** 2023-09- — Las Gabias, Spain Instructable foundation models for oncology. Data refinery concept, recursive self-improvement over human-level through non-imitative objectives. Electronic health record processing, multimodal models of radiology, pathology and genetics. **Alloy.ai** **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. **HERE Switzerland GmbH** **Lead ML & AI engineer** 2018-07-01 — 2022-04-30 Wollishofen, Zürich, Switzerland AI and machine learning. Deep reinforcement learning. Geolocation, maps.	**Nedu AI** **Advisor** 2023-06 — (part-time) Las Gabias, Spain Edutech and recruitment platform with LLM based AIs. **TerraScape AI** **Advisor** 2024-05 — 2025-02 (part-time) Las Gabias, Spain Building information management and automated coding. **Sentido Emotions Technologies Ltd & Sentido X-Tech Ltd** **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 **AI Morning** **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 **Neter** **Founder** 2009-03-01 — 2023-12-01 (part-time) Finland Deep learning, modern web technologies consulting, TensorFlow, node.js, Ionic, Phaser, Cordova

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