Mauri Mustonen

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EDUCATION

Tampere University of Technology, Tampere, Finland — 2016 – 2018
- M.Sc. in Software Engineering with Distinction
  - Cumulative GPA: 4.52 / 5.0

Karelia University of Applied Sciences, Joensuu, Finland — 2012 – 2016
- Information Engineer in Software
  - Cumulative GPA: 4.50 / 5.00

Vocational School Avartum Oy, Joensuu, Finland — 2010 – 2019
- Vocational Qualification in Business and Administration

Vocational School Peltola, Joensuu, Finland — 2004 – 2007
- Electronics Technician

EXPERIENCE

Advaun Ltd, Espoo, Finland — 2021 – Present
- Software Consultant and CTO
  - CTO and co-founder.
  - Embedded and full-stack web software consultant.

Lumitum Ltd, Espoo, Finland — 2020 – Present
- Software Consultant and CEO
  - CEO and co-founder.
  - Embedded and full-stack web software consultant.

Tampere University, Tampere, Finland — 2020 – 2021
- Researcher in Parallel Computing and Compilers
  - Researching and improving an open source OpenCL implementation PoCL.
  - Researching and contributing to LLVM compiler auto vectorization optimizations.
  - Working with LLVM software pipeliner to exploit ILP of VLIW architectures.

Wapice Ltd, Tampere, Finland — 2019 – 2020
- Embedded Software Developer
  - Embedded development with CMake, C and C++ up to C++17 standard.
  - Xillinx SDK and tools e.g. Vivado.
  - Real time OS, ARMv7 architecture and driver development for FPGA custom hardware.

Alsus Ltd, Tampere, Finland — 2017 – 2019
- Full-Stack Web Developer
  - Web development (e.g Ruby on Rails, AngularJS).
  - Distributed system architect and developer (e.g. Linux, C, Ruby, CMake, AMQP, Redis).
  - Writing Ruby native extensions to C language.
  - Contributing to open source (e.g. Ruby on Rails, libIEC6850).

Arestech Ltd, Joensuu, Finland — 2016 – 2020
- Entrepreneur and Shareholder
  - Responsible for customer relationships and meetings in Pirkanmaa region.
  - Embedded software design and developer (e.g. AVR, Linux, C/C++, Python).
  - Working as a software consultant.

Asmeco, Joensuu, Finland — 2015 – 2017
- Entrepreneur and Owner
  - Production management software for Puupietari Oy done with Django/Python and AngularJS with integration to Lemonsoft ERP.
  - Embedded development using Python and C/C++ (e.g. AVR, Arduino, Raspberry Pi).
  - Maintenance and development of Kirpputorivaraus software for flea market management (e.g. Knockout, JQuery, PHP).
  - Kirpputorivaraus integration to Tehden Oy cloud based point of sale.

North Karelia Brigade, Joensuu, Finland   2006 – 2007
- Electronics Technician
  - Fixing and taking care of the electrical equipment.

LANGUAGES
- Finnish: Native language.
- English: Proficiency (speaking, reading, writing).

SKILLS
- AMQP and RabbitMQ,
- Altera Cyclone FPGA,
- Back-end (Ruby on Rails, Django, Rust),
- C/C++,
- Rust,
- CMake,
- CPU and VLIW Architectures,
- Databases (PostgreSQL, MySQL, Redis),
- Docker and Containers,
- Embedded (ARMv7, AVR, Linux),
- Front-end (AngularJS, React, JQuery),
- HTML5, (S)CSS, SASS,
- Java,
- JavaScript,
- LLVM Compiler Optimizations and Back End,
- Linux Kernel,
- Linux Server Administration,
- OpenCL Parallel Programming,
- Python,
- Ruby,
- Software Integrations (SOAP, REST),
- VHDL,
- Windows, Linux,
- Xilinx SDK.

INTERESTS   Bicycling, Geocaching, Programming, Electronics, Books