Mauri Mustonen

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EDUCATION	 Tampere University of Technology, Tampere, Finland ■ M.Sc. in Software Engineering with Distinction • Cumulative GPA: 4.52 / 5.0 	2016 – 2018
	 Karelia University of Applied Sciences, Joensuu, Finland Information Engineer in Software Cumulative GPA: 4.50 / 5.00 	2012 – 2016
	Vocational School Avartum Oy, Joensuu, FinlandVocational Qualification in Business and Administration	2010 – 2019
	Vocational School Peltola, Joensuu, Finland ■ Electronics Technician	2004 – 2007
EXPERIENCE	 Advaun Ltd, Espoo, Finland Software Consultant and CTO CTO and co-founder. Application and web development with Rust. Embedded and application development with C/C++. Web development with Ruby on Rails and React. 	2021 – Present
	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 	

• Kirpputorivaraus integration to Tehden Oy cloud based point of sale.

management (e.g. Knockout, JQuery, PHP).

North Karelia Brigade, Joensuu, Finland

- 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