

HARRI PYY

IT ARCHITECT - CV

INTRODUCTION

Experienced Senior Cloud Consultant / Software Architect (B.Sc. CS + MBA) with professional experience in the field of infrastructure, software architecture, software development and system design. My special knowledge is concentrated on infrastructure architectural designs, software development, Web development, complex embedded software, cloud services(AWS), Linux software and startups.

I favour Lean, Agile and DevOps methodologies. I do have over twenty years of professional experience in mainly developing software and Infra.

My special interests and competencies are IT-Architecture in general, Cloud (AWS), Backend, Frontend and DevOps.



WORK EXPERIENCE

Fiare Oy, Cloud Architect

5/2021-

AWS cloud architect/freelancer. Mainly Alma Media related Nettix related services Nettiauto, Nettikone, and Nettimarkkina focused on developing new Infrastructure services, Cloud Security improvements for Infra.

AWS Technologies with Terraform CI/CD, Jenkins, Graylog, and Grafana.

Digidoit Oy(Contract/Freelance), Senior Infrastructure Developer for Ericsson

12/2020-5/2021

Ericsson consultant for infrastructure. Ericsson Openstack, Kubernetes and Cloud environment CI/CD consultancy. Linux software module developments for Openstack. New software preparation for cloud services.

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Senior Cloud Consultant, Solita

4/2020-12/2020

AWS Cloud consulting for the clients. CDK and Lambda Serverless solutions.

AWS CloudFormation Master Class (6.5.2020)

Senior Consultant, Telia Inmics-Nebula

8/2017-4/2020

Client consultation and internal projects in Telia Inmics-Nebula. Cloud stack: AWS, AWS DevOps, OpenStack and Kubernetes. Helping customers with AWS the other Cloud solutions, IT infrastructure, etc. In the CxO meetings helping to organise the corporate fusion in Telia-Inmics Nebula.

Recent Courses:

AWS Certified Solutions Architect, Professional (28.1.2020)

The Complete Serverless Course (27.2.2020)

AWS Lambda (25.1.2020)

Senior Software Architect, CGI

12/2017- 5/2018

AWS Certified, AWS Certified Solution Architect, Associate. (7.3.2018) Developing proof-of-concept for banking sector. Serverless demonstration how the service could work with AWS. Architecting new solution for insurance service replacing the on-premise software.

Tech Lead and Software Architect (CTO representative), Schibsted Media Group, Finland

9/2009 - 11/2017

Start-Up Tori.fi #1 employee

In Finland, we launched our marketplace with brand name Tori.fi in January 2010 for our users. We became #1 online classifieds site in Finland already during 2013 in terms of traffic and reach.

Tori's representative to Schibsted Classified Media CTO meetings 2011-2015. Schibsted is an international media group with 7,300 employees in 22 countries.

Building the Tori.fi system architecture and release system for 100 virtualised servers in XEN environment.

Work with extending Tori's environment to Amazon AWS.

Main technologies used in Backend & Infra & Front(Full Stack) : Amazon AWS, Linux, C, C++, PHP, PostgreSQL, SQL(replication, procedures, views), NoSQL, Redis, Memcache, Makefiles, Perl, Python, Java, HTML, CSS, Javascript, Ajax, Angular, Amplitude, Tealium, Unwire, Trafi, Xiti, Zabbix, Nagios, Selenium, IBM Xen Virtualisation, Jenkins, Selenium GIT, Enterprise Github, and Jira etc.

Organising from Tech perspective (March 2012) the Schibsted Developer Conference in Helsinki (over 60 participants from all Schibsted countries).

Key player in the team award for best handled Blocked platform site in 2013 (of sites in over 20 countries).

Masters degree in Business Administration(2017, MBA), Information Systems Management: Dedicated Server Infrastructure Transformation to AWS Cloud In Lean Organisation.

Link:

<http://www.theseus.fi/handle/10024/128802>

Senior Software Design Engineer, Concilio Networks**5/2007 - 4/2009**

Concilio Networks was mainly startup of ex-Nokia employees. Concilio Networks Community Connect Solution - CCS - extends Internet communities, social networks, and Internet voice- and chat services to any existing mobile handset.

End User Interface (www.snaptz.com) with PHP, Javascript, Solid SQL DB, SQL Procedures, AJAX, HTML and CSS. Linux server-side SW with C++ (OOP) in Vmware(Virtual Machine) Linux Environment.(Redhat, Fedora etc.)

Implementation telecommunications mobile switching center(MSC) AGW tester(C++) with socket-based message interface to Nethawk East. Interface supported SS7, Megaco, SIP and HLR Interface.

Software Design Engineer, Nokia Siemens Networks**5/2004 - 5/2007**

High Speed Packet Access is an enhanced 3G (third-generation) mobile communications protocol in the High-Speed Packet Access (HSPA) family, which allows networks based on Universal Mobile Telecommunications System (UMTS) to have higher data speeds and capacity.

Subproject Manager leading Frame Protocol SW porting for the Flexi High Capacity Baseband development.(Porting SW from PPC to TI DSP Faraday) C++(80%) and C(20%).

Winning team of Nokia Venture Challenge 2004: Work Group presence solution. The Venturing Challenge team were awarded in Nokia House in February 2005 by top executive management.

WCDMA Basestation ATM/IP Software, Frame Protocol SW development. Implementation of HSDPA & HSUPA MacDPdu and MacEsPdu interfaces to Frame Protocol SW. HSPA technology allows mobile to receive data up to 14.4 Mbit/s per downlink and 2 Mbit/s per cell in the uplink.(UMTS 3G Mobile Internet), also optimisation of the HSDPA.

ATM Ultra Basestation(Node B), and Flexi side SW development and maintenance for the Userplane protocols.

Founder, Altomer Oy**2/2003 - 2/2004**

Founding Altomer Oy. (Limited liability company) as providing Presence and Availability Management solutions

Negotiated with co-founder with Netwise's board and biggest shareholders (Company was listed on the Stockholm Stock Exchange) to externalise the business in Finland to Altomer Oy.

Altomer created co-operation with Cisco, IBM, Azlan, Elisa, Fujitsu, HP and local telephone operators within Finnet.

VoIP knowledge from Netwise Call Attendant and Cisco CallManager product.

Altomer Oy gained customers such as Pfizer, Viestintävirasto (Finnish Communications Regulatory Authority) and Cloetta Fazer. Other customers: Ahlstrom, Agfa, Cloetta Fazer, Espoo City, Helsingin Energia, Masayards, Metsärauma, Nordea, OKO bank, Pfizer, Puolustusvoimat(Finnish Military), Satakunnan keskussairaala, SEB, Tampereen virastotalo, Turun Yliopisto and Viestintävirasto.

DSP Software Design Engineer, Nokia Networks, Radio Networks**2/2002 - 2/2003**

Developing Dispatcher Station Controller, second edition multiprocessor TI DSP PCI card (DWSc, xGear for TETRA)

The main software developer for the project. Developing included architecture design, specification, implementation and testing. Mainly embedded real-time C programming.

Designing and implementing networking E1-interface using Infineon FALC 56 framer (E1/T1/J1/pri ISDN) Interface included shared memory interface with PCI card and PC.)

Designing PCM (E1/T1/J1) highway to Digital Exchange. Interface included usage of DMA Controller, DSP Enhanced Serial Ports, memory access through IO-Space. Also E1 Frame Analyser and oscilloscope usage.

Shared memory interface between PCI-card (exchange E1 time-slot information) to PC. Implementation of the DMA driver for the Falc 56 Framer.

Technical Specialist, Netwise

6/2001 - 2/2002

Technical consultant for Netwise products in technical support to customers.

CTI-solutions(Computer Telephony Integration) such as Call Diverting consultation for PBX's such as Ericsson MD110 and Nortel Meridian. Management of the large computerised information systems, and some of the information system carried out connections up to 30 PBXs.

Management of the large computerised information systems. PBX (Private Branch Exchange located at customer's premises) knowledge from the CTI-solutions.

Digital Signal Processors(DSP), Diploma Worker, Nokia Networks, Radio Networks

11/1999 - 6/2001

SW development for the Enhanced Dispatcher Stations Controller (Telecom TETRA, DWSc or EDST) with C language.

Mainly embedded real-time C programming in multiprocessor DSP environment.

Designing and implementing software architecture and message interface between PC and PCI card.

Shared memory interface or host port(HPI) interface to PCI bridge controller. Implementation for the DSP C54x Evm g. 711 codec audio interface.

Message interface to real-time operating multiprocessor environment. RTOP is

systems kernel to exchange messages in similar to OSE.

EDUCATION

Masters degree in Business Administration(MBA), Information Systems Management, Haaga-Helia, AMK

1.1.2016-15.7.2017

Grade Point Average 4.1 / (5) Studies carried out part time in 1.5 years and on average 3 years.

Covered: Leadership Communication, Leading Change, Enterprise Architectures, Strategy in Practice, Aligning ICT and Business, Applied Research and Development, Tools for Analysing and Forecasting, Project Management, Communication Skills in ICT, Information Architectures, ICT Management Best Practices, Client Base Development Methods, Managing the Development of Digital Services, In-depth Knowledge in Speciality Areas.

Thesis Dedicated Server Infrastructure Transformation to AWS Cloud In Lean Organisation:
<http://www.theseus.fi/handle/10024/128802>

Download Disc Profile: http://www.pyy.fi/mycv/HarriPyy_disc.pdf

University of Texas at Austin (UT), The Center for Research in Electronic Commerce

Bachelor of Computer Engineering(studies in English, 4 years), 2002, Espoo-Vantaa Institute of Technology, AMK

6/1997 - 6/2001

International Computer Engineering where studies carried out completely in English. My Engineering technical vocabulary is in English. Educational orientation: Software Engineering. Engineering thesis: Enhanced Dispatcher Station Controller. Thesis Grade: 4 / (5)

Tikkurilan Lukio, High School Diploma **1996**

Dallas, Oregon High School, High School Diploma as an exchange student **1995**

COURSES

AWS Certified Solutions Architect, Associate (Certified AWS, March 2018)

AWS CloudFormation Master Class (6.5.2020)

AWS Certified Solutions Architect, Professional (28.1.2020)

The Complete Serverless Course (27.2.2020)

AWS Lambda (25.1.2020)

Architecting on AWS, Sovolto (2016)

Project Management - ProjectView Controlling (Nokia)

Project Management - ProjectView Planning (Nokia)

Advanced Real Time and Embedded Systems with C++/C

CCNA (Cisco Certified Network Associate) - Cisco Systems

Microsoft Visual C++ Programming, FCS Partners

RMS320C5400 Digital Signal Processor, Texas Instruments

TMS320C6000 Digital Signal Processor, Texas Instruments