Christian Czezatke

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Software engineering professional with 25 years of experience.

EDUCATION

TU Wien (Vienna University of Technology), Vienna Austria, 1999
- *Diplomingenieur, Informatik (M.Sc. Computer Science). Graduated with distinction.*
- *4 semesters of Technische Physik (Applied Physics), but no formal degree earned.*

Coursera Online Classes, 2017-2018
- *Stanford Online/Andrew Ng. Machine Learning. ([Certificate](#))*

- *deeplearning.ai/Andrew Ng. Deep Learning Specialization. (5 courses) - ([Certificate](#))*

PROFESSIONAL EXPERIENCE

Station A, San Francisco, CA
Principal Software Engineer, April 2019 – present

Station A develops software to accelerate the deployment of renewable energy sources.

Maxta, Inc., Santa Clara, CA
Engineering Lead ("Employee #2"), January 2012 – January 2019

At Maxta I designed and implemented large parts of a data storage solution for virtual machines and containers. The architecture was distributed in nature, with no central point of control and no single point of failure.

The goal was to build a unified storage pool out of off the shelf servers. The system was self-healing and would automatically compensate for storage device or entire server failures.

As the company's second hire I wore many hats...

VMware, Inc., Palo Alto, CA
Staff Engineer, January 2004 – Dec. 2011

As VMware started to penetrate enterprise datacenters, customers realized that conventional data protection approaches did not scale in virtual environments. At that time backup vendors were also unwilling to adapt their products because datacenter virtualization was still fairly new and represented too small a market. Tasked to address the problem, I ended up developing a vendor-agnostic framework for wiring existing backup applications into VMware's infrastructure.

As adoption of virtualization in the datacenter grew, software vendors were eventually willing to adapt their products and the framework turned into a set of

APIs around which an entire ecosystem quickly developed that is still thriving today.

Over the years I also made various presentations on this topic at VMworld.

I also spent some time working on VMware's VSAN distributed storage project.

Universal Network Machines (aka NetXen), Santa Clara, CA
Senior Software Engineer, mid 2002 – December 2003

UNM was a fabless chip company that developed a "dataflow processor": A custom chip design consisting of a large number of simple processing cores with DSP-like capabilities centered around a message-passing architecture.

I developed memory management and scheduling routines for the processor that can be called a simple operating system.

Integratus, Scale8, Napster
early 2001 – mid 2002

In my early time in the Valley I worked on first-gen. distributed storage projects at Integratus and Scale8 and on DRM and security related software at Napster.

xS+S (Vienna, Austria)
"Employee #1", 1998 – 2000

At xS+S I developed a special-purpose Linux distribution. This also involved bug fixes and enhancements to various open source components, including the Linux kernel. – xS+S now powers environmental monitoring and data visualization solutions run by various state governments in Germany and Austria.

TBR (Laa/Thaya, Austria -- Graz, Austria)
Contractor, 1994 - 1998

While attending college I worked as a contractor for a small engineering firm. The biggest project I was responsible for was re-architecting an aging facility management application deployed in power plants operated by VERBUND Austria Thermal Power AG.

At that time I also developed the first version of Postgres' ODBC driver.

ADDITIONAL SKILLS/INTERESTS

- Native German speaker
- Keeping the IP phones and servers working and moonlighting as web designer for Yonaxis, LLC, my husband's patent agency
- Dabbling in IoT and smart things (https://bitbucket.org/christian_czezatke/)

PATENTS

US7,606,868, Oct. 20, 2009, "Universal file access architecture for heterogeneous computing environment,"
US7,707,185, Apr. 27, 2010, "Accessing virtual data storage units to offload operations from a computer system hosting a virtual machine to an offload server,"
US7,774,391, Aug. 10, 2010, US8,095,525, Jan. 10, 2012: "Method of universal file access for a heterogeneous computing environment,"
US8,056,076, Nov. 8, 2011, US9,239,731, Jan. 19, 2016, "Method and system for acquiring a quiesceing set of information associated with a virtual machine,"
US8,291,180, Oct. 16, 2012, US8,694,746, Apr. 8, 2014, "Loose synchronization of virtual disks,"
US8,296,759, Oct. 23, 2012, US8,789,049, Jul. 22, 2014, "Offloading operations to a replicate virtual machine,"
US8,443,166, May 14, 2013, US8,954,665, Feb. 10, 2015, "Method for tracking changes in virtual disks,"
US2017-0116302, Apr. 27, 2017, "Replica Checkpointing Without Quiescing,"
US2017-0242751, Aug. 24, 2017, "Detecting and Correcting Silent Data Corruption in a Distributed Storage System,"