José Hiram Soltren

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SYNOPSIS

Senior Software Engineer. MIT alum. Focus on device drivers, C/C++, Linux, AI. Broad systems and user software experience. Pilot and avionics geek.
Skills: C/C++, Linux, deep learning, computer vision, 3D graphics, avionics, firmware, Apache Spark, Scala, OpenGL, hardware emulation, gdb. Fluent in Spanish.

EXPERIENCE

Founder Soltren Consulting LLC, Cedar Park, TX   Jan 2014 - Feb 2020
- Technical consulting, including software engineering and product management.
- Product manager for a product line of high-end computer keyboards.
- Avionics system design for small aircraft operating under IFR with GPS.
- Deep Learning on PyTorch and TensorFlow. Performance analytics for ResNet, SSD, YOLO, Inception, FPN, LSTM. Added hardware backend to PyTorch.
- Brought XMIT Hall Effect Mechanical Keyboard to market. Sold through!

Deep Learning Software Engineer Intel Corporation   Aug 2017 - Feb 2019
- AI hardware device driver for Nervana deep learning accelerator, focusing on memory management, parallel execution, and performance.
- Algorithms for data/model/kernel parallelism across multiple chips and hosts.

Software Engineer Cloudera, Inc.   May 2016 - Aug 2017
- Contributions to Apache Spark, a distributed computation platform with fault tolerance billed as the successor to MapReduce.
- Implemented and upstreamed a blacklisting mechanism for faulty compute resources.
- Designed an addition to Apache Spark that would allow compute resources to report on memory utilization in real time.

Senior System Software Engineer NVIDIA Corporation   May 2011 - Apr 2016
- Video decode and post-processing technical lead. Added H.265/HEVC decode support to VDPAU. Wrote stream parser for H.265/HEVC video streams.
- Firmware and device driver development for 2D/3D graphics on Linux hosts.
- Fixed a bug that crashed the GPU when playing back some videos.
- Fixed dozens of bugs in the NVIDIA Linux driver graphics stack.
- Served as technical mentor to several engineers over the years.
- New hardware bringup across four generations of NVIDIA GPUs.

Member of Technical Staff Model N, Inc.   Aug 2009 - Nov 2010
- New feature and bug fixing for revenue management software for pharmaceutical and semiconductor enterprise customers. Focus on customer bugs and escalations.

Systems Administrator D. E. Shaw & Co., L.P.   Jun 2007 - Jun 2008
- Helpdesk support for traders and analysts during market hours.
- Streamlined operations resulting in reduced call time and volume.
- IT projects including video teleconferencing and backup infrastructure.

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA
Master of Engineering and S.B. Electrical Engineering and Computer Science

CITIZENSHIP

United States