

## Senior Performance Software Engineer, Deep Learning Libraries

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Company: NVIDIA

Location: Poland

Category: computer-and-mathematical

**We are now looking for a Senior Performance Software Engineer for Deep Learning Libraries!** Do you enjoy tuning parallel algorithms and analyzing their performance? If so, we want to hear from you! As a deep learning library performance software engineer, you will be developing optimized code to accelerate linear algebra and deep learning operations on NVIDIA GPUs. The team delivers high-performance code to NVIDIA's and libraries to accelerate deep learning models. The team is proud to play an integral part in enabling the breakthroughs in domains such as image classification, speech recognition, and natural language processing. Join the team that is building the underlying software used across the world to power the revolution in artificial intelligence! We're always striving for peak GPU efficiency on current and future-generation GPUs. To get a sense of the code we write, check out our showcasing performant matrix multiply on NVIDIA's with CUDA. This specific position primarily deals with code lower in the deep learning software stack, right down to the GPU HW.

### What you'll be doing:

Writing highly tuned compute kernels, mostly in C++ CUDA, to perform core deep learning operations (e.g. matrix multiplies, convolutions, normalizations)

Following general software engineering best practices including support for regression testing and CI/CD flows

Collaborating with teams across NVIDIA:

CUDA compiler team on generating optimal assembly code

Deep learning training and inference performance teams on which layers require optimization

Hardware and architecture teams on the programming model for new deep learning hardware features

### **What we need to see:**

PhD degree or equivalent experience in Computer Science, Computer Engineering, Applied Math, or related field or a Bachelors or Masters degree plus 4-6 years of equivalent relevant industry experience.

Demonstrated strong C++ programming and software design skills, including debugging, performance analysis, and test design.

Experience with performance-oriented parallel programming, even if it's not on GPUs (e.g. with OpenMP or pthreads)

Solid understanding of computer architecture and some experience with assembly programming

### **Ways to stand out from the crowd:**

Tuning BLAS or deep learning library kernel code

CUDA/OpenCL GPU programming

Numerical methods and linear algebra

LLVM, TVM tensor expressions, or TensorFlow MLIR

NVIDIA is widely considered to be one of the technology world's most desirable employers. We have some of the most forward-thinking and hard working people in the world working for us. If you're creative, autonomous, and love a challenge, consider joining our Deep Learning Library team and help us build the real-time, cost-effective computing platform driving our success in this exciting and quickly growing field.

#deeplearning

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