**Software Testing Engineer (Location: Shanghai)**

**Responsibilities:**

1. Responsible for testing software stack from driver to application API interface for Deep Learning(DL) ASIC in pre-silicon and post-silicon
2. Develop comprehensive test plans assuring the overall quality of ongoing projects
3. Lead testing and development team to drive quality through design and implementation
4. Lead and develop automation test framework suitable for testing DL software stack
5. Analyze and optimize performance based on current DL software and hardware

**Qualifications:**

1. More than 8-year of experience in software testing area including software development process, manual and automation testing,
2. Excellent in automation scripting language such as python, perl, ruby etc.
3. Familiar with linux driver/compiler testing
4. Good experience in whitebox testing
5. Excellent software performance testing, problem solving and debugging skills
6. Familiar with C/C++ programming
7. Familiar with Tensorflow, Caffe, LLVM, or other DL/compiler framework is a highly desired
8. Familiar with different DL models is a plus
9. Familiar with OpenCL or Cuda is a plus
10. Familiar with GPU/CPU architecture is a plus
11. Strong communication and teamwork skills
12. BS/MS degree in Computer science or related major

**AI SW SDK/Tool Developer (Location: Shanghai)**

**Responsibilities:**

1. Analyze the function and performance of various machine learning/DL algorithms on existing/new architectures
2. Write special demo on popular framework like Tensorflow or Caffe2
3. Work with SW team to provide profiling tools

**Qualifications:**

1. 1-2 year work experience in DL application programming
2. Familiar with at least 1-2 frameworks like Tensorflow, Caffe2, PyTorch, …
3. Familiar with the popular network for DL
4. Good programming skills in python or C++
5. Good communication skills in both Chinese and English
6. BS or MS of computer science or other related major

**Software Profiling Engineer (Location: Shanghai)**

**Responsibilities:**

1. Make profiling plan according to specific software architecture requirements
2. Implement the application or program based on the plan
3. Use the external or internal profiling tools to analyze the performance of the feature on different platform

**Qualifications:**

1. Good programming skills in one of the framework/programming languages: tensorflow/caffe/Pytorch/Cuda/OpenCL/SQL
2. Good programming skills in C++/Python
3. Familiar with either cuda or opencl API/Kernels
4. Familiar with one of the profiling tools for AMD/Nvidia/Intel GPU/CPU
5. Good problem-solve skills and communication skills
6. Good understanding to the GPU/CPU architecture/ISA is a plus.
7. Good understanding to database programming is a plus.
8. B.S or above in CS or other related majors

**Software Libraries Engineer (Location: Shanghai)**

**Responsibilities:**

1. Develop device kernels and heterogeneous BLAS, FFT, RNG and sparse libraries
2. Defining the public APIs, performance tuning and analysis, implementing new algorithms, and other general software engineering work.
3. Research and implement  algorithms in a library domain to improve code quality and performance of workloads
4. Provide technical direction for the libraries effort across components and domains (technical leaders)

**Requirements:**

1. Good at with kernel programming with cuda or opencl
2. Proficient in C/C++ programming and system-level software development
3. Knowledgeable of mathematics,  such as dense/sparse linear algebra,  FFT, spatial and frequency domain 1D and 2D filtering
4. Familiar with GPU and/or CPU architecture, including performance analysis, and/or parallel computing and/or software optimizations targeting specialized hardware
5. Experience in deep learning algorithm is a plus
6. Good communication and team work skills
7. MS above of Computer Science

**Driver Engineer (Location: Shanghai)**

**Responsibilities:**

1. Work closely with hardware to implement features for AI chips in different platform
2. New hardware bring-up and productization
3. Performance analysis and optimization

**Requirements:**

1. Excellent programming skills and knowledge of C/C++.
2. Development experience on Unix or Linux.
3. User mode or kernel mode device driver development experience
4. Excellent software design, problem solving and debugging skills
5. Experience with OpenCL or Cuda APIs
6. Experience with driver or operating system development
7. Experience with software performance analysis and optimization
8. Strong communication and teamwork skills
9. Experience building any part of a compiler (front-end, IR, code generation, ...) is a plus
10. Work with building compiler related tools (interpreter, debugger, assembler, profiler) is a plus
11. Design or development of high level intermediate representations for machine learning frameworks is a plus
12. Knowledge of Tensorflow, Caffe, LLVM or other DL/compiler framework is a plus
13. Knowledge of GPU/CPU architecture is a plus
14. Experience with parallel and asynchronous processing is a plus
15. BS/MS degree in Computer science or related major