

## **Introducing the Cerebras SDK**

- Programmable via SDK or ML frameworks like Tensorflow and Pytorch
- CSL: Cerebras Software language
- Programmer's perspective
  - Host CPU(s): Python
    - Loads program onto simulator or CS-2 system
    - Streams in/out data from one or more workers
  - Device: CSL
    - Target software simulator or CS-2
- CSL
  - Similar to C/C++
  - Any CSL source code file is a module
    - Can be imported into other modules
  - Tasks
    - Special functions to implement dataflow programs
  - Data structure descriptors
    - Special variables used as pointers to tensors or for communication
- Writing a program
  - host.py and device.csl
  - Compile device code with 'cslc', outputting .elf file
  - Run via host.py on simulator or CS-2