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Thread: [Crypto Miner Build](#)

Borris5ranked - August 8, 2026, 5:41 pm

1. Programming Languages

- C++, To write and run C++ code, you do not download the language itself; instead, you download a C++ compiler (which translates your code into a runnable program) and an Integrated Development Environment (IDE) or code editor.

--Download: <https://visualstudio.microsoft.com/vs/features/cplusplus/>

- Python latest version: automating tasks, developing the control panel and user interface

--Download:

<https://www.python.org/downloads/>

2. Crypto Mining Libraries

-libuv

Download:

<https://github.com/libuv/libuv>

-OpenCL

OpenCL is not downloaded as a single standalone file; instead, it comes built into your hardware manufacturer's official graphics driver or runtime package. To get OpenCL support, install the latest driver for your specific hardware component: NVIDIA, AMD, or Intel

-CUDA

CUDA (Compute Unified Device Architecture) is a parallel computing platform and programming model created by NVIDIA.

Download:

<https://developer.nvidia.com/cuda-downloads>

3. Networking Tools

-libcurl

Download:

<https://curl.se/download.html>

-Boost.Asio

You can download Boost.Asio by getting the full Boost libraries distribution, using a C++ package manager like vcpkg, or downloading the standalone non-Boost version Asio C++ Library.

Download:

<https://think-async.com/Asio/Download.html>

-stratum protocol

Description: Stratum V2 is the next-generation Bitcoin mining protocol focused on efficiency, security, privacy, and decentralization.

<https://github.com/bonesoul/CoiniumServ/wiki/Stratum-Protocol>

4. Configuration and Control

-JSON

Download:

<https://github.com/json-c/json-c>

-Web Sockets:

Python: good for creating control panels and connecting the web sockets to the miner control panel using python.

Download:

<https://pypi.org/project/websockets/>

5. Performance Optimization Tools

-Profilers

Download: <https://www.qualcomm.com/developer/software/qualcomm-profiler>

-Benchmarking Tools

Download:

<https://www.passmark.com/products/performancetest/?srsId=AfmBOoqUHOsO4Zqoqp6QTaTs8aHgWETzUr3KZ-UxLphkcYsmsxAt6G36>

Download:

<https://github.com/sharkdp/hyperfine>

6. Obfuscation Tools:

-protect from reverse engineering. use obfuscators like ProGuard for Java or similar tools for C++.

Download:

<https://github.com/obfuscar/obfuscar>

7. Packaging Tools

-NSIS

Download:

<https://nsis.sourceforge.io/Download>

-dpkg/deb or rpm

8. Command-Line Interface (CLI) Libraries

-Boost.ProgramOptions

Download:

https://www.boost.org/library/latest/program_options/

9. Crypto Algorithms

-SHA-256 for Bitcoin, RandomX

Download:

<https://github.com/helloissac/li/sha-256-hash-algorithm-bitcoin-miner>

Download:

<https://github.com/tevador/RandomX>

10. Debugging Tools

-GDB

Download: <https://github.com/guyush1/gdb-static>

-PyCharm or Visual Studio Code