



Microsoft Open Sources its Quantum Development Kit

By Longjam Dineshwori - July 12, 2019

By releasing the Kit on Github, the company is trying to make it easy for developers to engage with and contribute to its quantum initiatives.



Microsoft has open sourced its Quantum Development Kit (QDK) on GitHub and is inviting developers to contribute to its development to unlock the power of quantum computing.

First introduced two years ago, the QDK includes the Q# quantum programming language and compiler, samples and tutorials to get started with quantum computing, and simulators and resource estimators for quantum programs. The QDK also includes development environment extensions for VS and VS Code, and integration with the Jupyter platform.

The tech giant is encouraging developers to contribute quantum apps and algorithms as well as advancements in compilation, optimization and tooling to help advance the QDK.

Open Source efforts

"At Microsoft, our Quantum mission is to develop and deploy the world's most scalable, secure, quantum computing system and to support a rich ecosystem of domain experts, developers and researchers to solve today's most challenging problems," Microsoft said in a blog post.

"By open-sourcing the Quantum Development Kit in GitHub, we enable developers to contribute alongside an emerging community of quantum computing programmers to help solve some of our world's most important challenges," it added.

The company noted that recent updates to the QDK, ranging from its open-source efforts to the new "no install" option, are designed to make it easier than ever for developers to engage with and contribute to its quantum initiatives.

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