

Coding Ethereum Smart Contracts: Hackpack

January 16, 2020 / 2:00 PM - 3:30PM EST

Workshop Lead Contact

Zvezdin Besarabov

@Zvezdin#7454 (Discord handle)
zvezdin.besarabov.19@ucl.ac.uk

Pre-Workshop Checklist

- Review the [Workshop Syllabus](#) and brush up on prerequisite knowledge
- Make sure you can load <https://remix.ethereum.org/> and get familiar with its interface!
- Be ready to code! And don't be shy if I ask you to share your screen to show us your code during the exercises :)
- Get ready to learn! 🧑🎓

Additional Resources

Workshop-Specific Resources

[Workshop syllabus](#) - This workshop's motivator, prerequisites, learning outcomes and schedule.

[Ethereum Whitepaper](#) - For good general Blockchain understanding

[Ethereum Yellowpaper](#) - Goes very very deep into Ethereum's Virtual Machine, and how exactly does it work to execute smart contracts correctly and consistently.

[Solidity Documentation](#) - The official documentation of solidity. If you haven't read this and want to do smart contracts, you really shouldn't be reading anything else.

[OpenZeppelin](#) - A generally useful library to help you write solidity contracts. It has many base contracts you can use for generic functions such as ownership, token handling, and safe math operations. The best part? It is security audited so less likely to have a vulnerability than if you were to write it yourself (though, [cough cough](#), you never know).

[Truffle Suite](#) - A framework for running, testing, debugging, and deploying smart contracts efficiently and correctly.

[Web3 API](#) - The official way to interact with the Ethereum blockchain from your code. This is a JavaScript API which connects to a running Ethereum node (e.g. Parity Ethereum) or adapters such as Metamask.

[Metamask](#) - An easy way you can integrate smart contracts into your project right now! Metamask is a browser extension that connects your website to the Ethereum blockchain and allows it to interact with contracts.

[Parity Ethereum](#) - An efficient Ethereum client. Good if you want to scrape Ethereum data, or run a full or lightweight Ethereum node.

[Awesome Ethereum](#) - A good broad list of resources around Ethereum.

General Resources

[Hack the North 2020++ Event Schedule](#)

Check this out to stay up-to-date on activities, workshops, and other key happenings this week.

[All Hack the North 2020++ Workshops](#)