# Major Use Cases of Blockchain

* DEFI
* NFTs
* Gaming
* Web 3.0
* Metaverse

# Important Skills to become a BC developer

* Solidity
* RUST, C, C++ (important for Solana)
* Javascript
* Python
* Blockchain: learn Etherium!

# Learning Path - Blockchain application developer

### 1 - Web development (basics)

Frontend (HTML, CSS, **Javascript**, React)

Backend (nodeJS, NPM, SmartContract)

### 2 - Etherium development

### POW, Public-private keys, wallet, transaction, account types, smart contract

### 3 - Smart contract development (core)

* [**Solidity**](https://docs.soliditylang.org/en/v0.8.13/): EVM (Etherium Virtual Machine), Smart Contract, Gas optimization, security
* Frameworks: [**truffle**](https://trufflesuite.com), [**Hardhat**](https://hardhat.org)**,** [**REMIX**](https://remix.ethereum.org/#optimize=false&runs=200&evmVersion=null)
* Important Javascript libraries: [WEB3.JS](https://web3js.readthedocs.io/en/v1.7.1/), [Ethers JS](https://docs.ethers.io/v5/)
* Blockchain Wallet: [Metamask](https://metamask.io)
* Ganache, Public testnets, Etherscan
* API: [Infura](https://infura.io)
* Testing
* Frontend interaction via Dapp (decentralized Application, webapp)
  + Integration with blockchain: Web3
  + Integration with wallet: Meta mask

### 4 - Specialization

* Smart contract specialist
* DeFi specialist (Decentralized Finance)

Decentralized exchanges ([**Uniswap**](https://uniswap.org))

Lending protocols ([**compound**](https://compound.finance))

Yield aggregators (yearn finance)

Learning path: learn fundamental DeFi concepts, learn main DeFi protocols

* NFT

Getting started:

<https://www.dappuniversity.com/articles/blockchain-app-tutorial>

Read books, build projects to showcase

​​Bank name:

MUFG Bank, Ltd.

Bank address:

7-1 Marunouchi 2-Chome, Chiyoda-ku Tokyo, Japan

Bank code:

0005

Branch code:

869

Account type:

Savings / Futsu

Account number:

2555471

Beneficiary name:

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