

Evan McGrane

Bachelor Of Science (B.Sc) - Applied Physics

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 [Web3Simplified](#)

 [Github](#)

Technical Skills

- Solidity
- JavaScript
- TypeScript
- NodeJS
- C
- React.js
- Next.js
- GETH
- Python
- Hardhat
- Truffle
- AWS
- SQL
- Firebase

Experience

Fullstack Web3 Engineer

Ren Protocol

From: 01-05-2022

To: Current

I work as a key developer at the Ren Project which at its height was a Billion dollar Cross-chain cryptocurrency bridging protocol which enabled the transfer of assets between blockchains. I worked as full-stack developer with frontend focus on different products hosted by Ren.

Some of the main projects I worked on were [RenBridge](#) and Catalog, a cross chain DEX built on top of the Ren L1 blockchain. I am a core developer mainly on the Catalog Team where our main focus revolves around on User-experience to make the traditional DEX experience easier for trad-Fi users. My day to day work includes building out the Catalog DEX & Ren-Bridge user interfaces aswell as linking these to our backend smart contracts & database infrastructure. I also participate in developing the core Catalog AMM contracts aswell as building our rest API and backend workers in **Node.js/Typescript** for data fetching on our Next.js client.

Our main stack includes Next.Js, with tailwind/styled-components, NodeJS/Typescript, Golang, AWS, Postgres SQL aswell as ethers.Js, web3.js for web3 interaction and I worked with this stack on my day to day.

Developer Advocate / Student Tutor

Moralis

From: 24-11-2021

To: 12/12/2022

I worked as a developer advocate and forum moderator at [Moralis](#). My work included **mentoring students** at the blockchain academy by answering questions, reviewing, and fixing student code aswell as one-on-one calls. I mainly helped students who were learning Javascript and Typescript to help complete the different courses on the Moralis Academy teaching these languages.

I also worked as a developer advocate and participated in the **development of new academy courses** which are available on the Moralis academy website aswell as doing tutorial videos demonstrating the different Developer tools that Moralis offer such as web3 React component libraries and more.

Blockchain Protocol Researcher

Dublin City University

From: 01/01/2021

To: 24-10-2021

As part of a scholarship I won, I worked as a blockchain developer and researcher for DCU on the development of a Blockchain based science & RTD platform where the decentralized and transparent nature of blockchain is implemented with traditional academia to create a decentralised economic model for open science though the use of POS consensus and on-chain governance. Assisted Leading the Research of underlying blockchain Technologies, **POS, Layer2-Scaling, ZKP's (ZK-SNARKS)**, Consensus, / Governance protocols and more. Developed a robust theoretical governance model & economic framework to serve as the basis for the platform's rules

Personal Projects

Cross Chain Crypto-currency Bridge/Dex

[Website](#)

I built a Cross-Chain bridge and DEX application using **TypeScript, Solidity** and **Ren.js**. Users can bridge legacy assets such as BTC, BCH, DOGE, aswell as many ERC20 tokens, seamlessly between a dozen EVM blockchains. I developed robust smart contracts to allow users to interface with Uniswap and One-Inch to execute trades with bridged tokens from within my app.

Defi Arbitrage Bot

[Website](#)

I built an Arbitrage Bot using **Javascript, Node.js, Solidity** and **Ganache** which allows users to watch for arbitrage opportunities between the DAI and WETH tokens on Uniswap, SushiSwap, SakeSwap and CrowSwap. I developed a collection of smart contracts to execute multi-level deep flashloans. The bot includes a clever algorithm to determine the maximum amount of tokens to trade in order to realise maximum profit

Blockchain Explorer

[Website](#)

This project is an Etherscan like blockchain explorer. I built this as a solo effort working for Ren Labs on their latest side project which is a dex called Catalog. it allows users to search for transactions blocks etc on both the ren and Catalog blockchains whilst proving smart contract information and event logs of each transaction. i built out a custom event log and input data decoder to decode solidity bytecode back to their original inputs

Education

BSC in Applied Physics (79% GPA)	Dublin City University	Year Completed: 2021
Smart Contract Security	Moralis Blockchain Academy	Year Completed: 2020

Volunteering

Cardano Plutus Pioneer Program

The Cardano Plutus pioneer program was a test program where a small group of selected applicants got the privilege of learning Plutus (Cardanos' smart contract programming language) to help the core Cardano developers with testing the technology to better prepare it for production and commercial use. The purpose of the program is for developers to learn this new technology and report potential bugs by building decentralized apps using Plutus as the underlying foundation.

Pass-times/YouTube

In my spare time I run a blockchain and web3 orientated YouTube Channel. My goal with the channel is to teach blockchain development through building full scale robust applications instead of tutorial style teaching. I also want to teach blockchain concepts from blockchain architecture o things like Defi and blockchain economics.

I love economics and learning about the history of money and how the global economy works. I like to stay up to date with world news as well as new advancements in political policies. I spend lots of time learning about how finance and banking works

I have a profound interest in art and painting. I am credited locally for my artwork. These interests include photo and video editing as well as painting in my spare time.