

# MATTHEW CARTER



## Education

**University of Virginia**  
**Bachelor of Computer Science**

Aug 2018 - Dec 2021

• **Courses:** Algorithms, Data Structures, Web Development, Cloud Computing, Artificial Intelligence

## Skills

Languages: Solidity, Cairo, Javascript  
Technologies: React, Blockchain (EVM/Cairo, hardhat, ethers.js), Git

## Professional Experience

Full Stack Developer — Sole Employee, Owner  
**NovemberFork**

Virginia Beach, Va  
October 2021 – Present

Web3 Software Development Firm (DevShop for Contract/Freelance/Personal Work)

- Portal for ongoing projects, landing site for future clients, and live demonstration of coding skills & range
- Designed and coded the interactive frontend, smart contracts, custom graphics components, data structures, and art pieces
- Live at: <https://NovemberFork.io> — receives updates frequently

Web3 Software/Smart Contract Developer — Core Development Team  
**OmniMint**

Bangkok, Thailand (Remote in Va)  
April 2022 – April 2023

NFT Aggregator and Data Analytics Company

- Wrote smart contracts and transaction encoders to process batch (NFT) orders as single transactions
- Contributed to off-chain data aggregation, identified APIs returning order fulfillment data, built functions to fetch, filter & combine these data
- Acquired understanding for various marketplace protocols across different (EVM) networks
- Assisted the backend team in paginating endpoints for performance and scalability
- Utilized expertise to assist management in product development and decision-making
- Live at: <https://OmniMint.xyz> — aggregator launching soon

Web3 Contractor/Full Stack Developer — Assisted Development Team  
**Astrofrens**

Virginia Beach, Va  
May 2022 – July 2022

Contracted by Team to Extend The Project's Roadmap

- Created/deployed/verified Solidity contracts, stitched them into the frontend using ethers.js, handled the web3 login/database
- Contracts included: an ERC-1155 staking contract, an ERC-1155 emissions contract, an ERC-721A contract, and a contract facilitating on-chain transactions with off-chain message signatures to redeem physical merchandise
- Handled sensitive user data using a "connect wallet" login
- Contract source code and transaction history can be viewed here — along with the immutable inclusion of my name and an ENS domain I can verify ownership of written at the top of each contract:
  - <https://etherscan.io/address/0x90DD49e039B6C1343cDd59c7032c51a9f769823F#code>

# Projects

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Project Creator/Sole Developer — Starkware Funded Project

## **RabbitHoles**

- Received a grant from the Starkware Foundation to work on a project using their Cairo coding language
- Implementing a permanent discussion thread system using an abstracted ERC-20 smart contract
- Built using the soon to be deprecated Cairo 0.8.x, currently being rebuilt in the newly released Cairo 1.0 then being deployed on their Ethereum L2 network, Starknet
- Handling all operations including: creative direction, smart contract development, and user -> contract/L2 connection  
While the contracts are being developed, a live demo is available at <https://rbits.space>

Web3 Contractor — Business Consulting Agency

## **Token Gated Consulting Agency**

- Consulted with a business consulting agency to introduce their services to the Web3 atmosphere and clientele pool
- Implemented a “connect wallet” login and a custom ERC-721A contract for membership to the client’s services
- Built & designed the website using React for the frontend and node.js w/parse-server & mongoDB on the backend for user authentication & data
- They are currently waiting to deploy the product and prefer to stay anonymous until launch

# Interests

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Computer Science • Cryptography • Breathwork • Nature • Music •