

# NNAEMEKA ANTHONY UMEH

## FULL STACK BLOCKCHAIN ENGINEER

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### PROFESSIONAL SUMMARY

Experienced Smart Contract Engineer with a proven track record of impactful contributions across various blockchain projects over the past two years. Specialized in designing, testing, and deploying smart contracts on EVM chains, demonstrating proficiency in Solidity, Foundry, Hardhat, and EthersJS. Recognized for collaborative achievements, including co-authoring Yul By Example and successfully integrating gasless transaction solutions with Gelato, Safe, and Privy teams at Tradable, a non-custodial perpetual exchange. My commitment lies in advancing blockchain technology, enhancing security, and ensuring a seamless user experience.

### CORE LANGUAGES AND LIBRARIES

CSS, EthersJS, Foundry, Hardhat, JavaScript, ReactJS, Solidity, TypeScript, Yul

### OTHER LANGUAGES AND LIBRARIES

AJAX, Brownie, ExpressJS, HTML, Python, Web3.js, Web3.py

### TOOLS

Git, GitHub, Insomnia, IntelliJ IDEA, NodeJS, Postman, Remix IDE, VS Code.

### Smart Contract and Integrations Engineer, Tradable (Nigeria)

#### July 2023 - Present

- Played a pivotal role in the successful launch and rapid growth of the exchange, contributing to a remarkable Total Value Locked (TVL) of over \$36,000.
- Spearheaded the development of the orderbook system, leveraging JavaScript to architect a high-performance solution tailored to high-frequency trading requirements.
- Currently serving as the Smart Contract and Integrations Engineer at Tradable, a cutting-edge on-chain, non-custodial perpetual exchange, actively contributing to the ongoing development and advancement of the platform.
- Collaborated with a team member to rigorously test and deploy the smart contract suite at Tradable, a non-custodial perpetual exchange, using Hardhat and EthersJS, ensuring a secure and robust foundation for the platform's development.
- Collaborated with the Gelato team, integrating their Gelato package to enable gasless transactions for users on our platform at Tradable, demonstrating a commitment to enhancing the user experience through innovative blockchain solutions.

- Extended the gasless transaction functionality to users onboarding from the Web2 space by collaborating with the Safe team, showcasing a commitment to seamless integration and accessibility within the blockchain ecosystem at Tradable.
- Continued the commitment to user accessibility by collaborating with the Privy team, implementing gasless transactions for users transitioning from Web2, further enhancing the user experience at Tradable.

## **Blockchain and Backend Developer, Tecmie Labs (Delaware, USA)**

**June 2022 - April 2023**

- Collaborated with senior developers at Tecmie, contributing significantly to the initial development of Daccred, a cutting-edge on-chain certification platform, during a dynamic three-month period, showcasing early prowess in blockchain-based credentialing.
- Implemented and integrated POAP (Proof Of Attendance Protocol) NFTs seamlessly into the project, elevating its functionality and user engagement through innovative blockchain technology.
- Utilized the ERC721A standard, demonstrating adeptness in blockchain protocols and ensuring compatibility and efficiency in the project's tokenization processes.
- Incorporated Soulbound NFTs into the project, showcasing expertise in blockchain interoperability and further enriching the decentralized ecosystem.
- Designed, coded, and rigorously tested eight smart contracts for the platform, ensuring robust and secure functionality within the blockchain framework.
- Collaborated closely with the lead developer at Tecmie to develop BBNPolls, an innovative on-chain market and event prediction platform, demonstrating a commitment to pushing the boundaries of blockchain applications.
- Implemented the ERC721A standard in BBNPolls, reinforcing a consistent and standardized approach to tokenization within the project's framework.
- Developed and thoroughly tested five smart contracts for BBNPolls, ensuring the reliability and security of the platform's on-chain functionalities.
- Led the development as the lead smart contract developer at Tecmie for Odele, an on-chain advertising and promotions platform tailored for creators and consumers, showcasing leadership and expertise in blockchain-driven marketing solutions.
- Engineered a mathematically precise ERC20 token for Odele, serving as both rewards for creators and a secure payment method for consumers, exemplifying a strategic and innovative approach to blockchain-based incentives.
- Developed and rigorously tested four smart contracts for Odele, ensuring the reliability and robustness of the on-chain advertising and promotions platform.
- Directed the smart contract development for Wyre, an on-chain payroll system designed for seamless single, instant, future, and batch payments, showcasing leadership in crafting efficient and versatile blockchain-based financial solutions.

- Applied the ERC20 Permit principle algorithmically in Wyre, enabling gasless payment approvals and facilitating future-based payments for recipients, demonstrating a commitment to optimizing transaction efficiency in the blockchain payroll system.
- Crafted and thoroughly tested three smart contracts for Wyre, contributing to the seamless functionality and security of the on-chain payroll system.
- Produced a comprehensive portfolio of over 20 meticulously crafted and tested smart contracts within an 11-month timeframe, showcasing a consistent commitment to delivering high-quality blockchain solutions.
- Led the development of a robust backend system using Express JS and MongoDB, complementing blockchain functionalities and ensuring seamless integration for optimal performance.
- Successfully deployed more than 8 contracts to Ethereum, Polygon, and Avalanche mainnets, along with over 15 contracts to their respective testnets, showcasing versatility in implementing and testing blockchain solutions across multiple networks.

## **Blockchain Engineer, Freelance**

**February 2022 - June 2022**

- Pioneered six contributions to TheAlgorithms/Solidity by introducing core math contracts and functions, facilitating seamless calculations of shares or percentages of funds and tokens, and enhancing compatibility with DeFi protocols.
- Conceptualized, designed, and deployed a notable portfolio of 180-200 Smart Contracts on Ethereum and Polygon blockchains, leveraging Solidity, Python, and Brownie, with a highlight being the creation of the \$Aguia token—an ERC20 implementation, even amid challenges such as the deprecation of the Rinkeby testnet.
- Showcased expertise by participating in the Damn Vulnerable Defi CTF, uncovering and addressing five exploits, demonstrating a keen understanding of decentralized finance security vulnerabilities.
- Demonstrated a profound understanding by comprehending and conceptualizing the UniswapV2 Liquidity Pool codebase while contributing to the development of two contract projects.
- Executed the implementation of the UniswapV2 codebase in a development project, successfully creating a liquidity pool for two custom tokens, showcasing proficiency in decentralized finance protocols.

## **ANTHOLOGY**

- Collaborated in the co-authorship of [Yul By Example](#), contributing expertise to the exploration and documentation of the Yul language, furthering understanding within the blockchain development community.

## **CERTIFICATES, AWARDS, COURSES AND BOOKS**

- Solidity, Blockchain, and Smart Contract Course from FreeCodeCamp.
- Express JS 2022 Course by Anson The Developer.
- Advanced Solidity, Yul and Assembly from Udemy.
- Solidity By Example.
- Mastering Ethereum.
- How To Defi.
- Secureum Mind Map.