Terome J. Mensah
Blockchain Engineer

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Developer Portfolio: https://github.com/thequantumdomain

A highly-motivated developer with a strong background in computer science and 3 years of professional experience in programming on the Blockchain. Proficient in Solidity, Python and Javascript, with an extensive knowledge of smart contracts, consensus algorithms and data structures. Proven track record of delivering secure and efficient decentralized applications (dApps) using Solidity and related technologies. Seeking the opportunity to advance these skills in a professional environment and contribute towards building the financial system of the future.

Knowledge

- Deep knowledge of blockchain technologies, Web3 and DeFi
- Experience working in fintech Start-ups (Trading Apps, Digital Banks)
- Theoretical computer science: Algorithmic Game Theory, Mechanism Design, Blockchain Foundations, Cryptography, Consensus Algorithms, Protocol Analysis
- Programming, trading and investing in Cryptocurrencies
- Token development and ERC standards: ERC-20, ERC-721, ERC-1155
- Gas optimization techniques
- Building DApps
- Writing academic and business reports on blockchain tools and industry trends
- Implementing networks of value
- Predicting technical approaches and risk management
- Modular deployment and debugging
- Security auditing and formal verification
- Layer-2 development / Zero-knowledge proof roll-ups
- Collaborating with Fintech Stakeholders (CTOs, Clients, Brokers, Engineers)
- Machine Learning and Automation in Finance
- Cybersecurity protocols

Technical Skills

Programming languages: Solidity, Python, C++, Go, Javascript, Typescript, Java.
Blockchain Platforms: Ethereum, Hyperledger Fabric, Hedera
Smart Contract Tools: Hardhat, Remix, Ganache, Truffle
DApp Tools: Web3.js, React.js, Ethers.js, Node.js, Angular.js
Blockchain Infrastructure: Interplanetary FileSystem
Technologies: Ethereum Virtual Machine, Git, Metamask, Etherscan, OpenZeppelin, VScode, Docker, Kubernetes, AWS, Excel, Slack, Teams, Discord, Telegram, Asana, Notion.
DeFi Protocols, Miner Extractable Value (MEV),NFTs,.
Front-End Development: UX/UI Web and App Interfaces, Web3 Site Hosting.

Strengths: Excellent communication, Collaborative teamwork, Organisation, Project Management, Diligence, Accuracy,
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Projects *(Further information can be found on Github profile)*

Geneblock: Blockchain application for Medical Data Storage including Genomics and Electronic Health Records. Built and launched pilot which allowed clinical trialists to store and access medical data on the Ethereum network via Interplanetary FileSystem.

Zinc: Decentralised Cryptocurrency Exchange which allows for the exchange of cryptocurrencies and tokens on the Ethereum network. Founded and Developed the Front and Back-end using React.js and Node.js;   Built a community of over 1000+ users; Wrote and security tested smart contract code;

Posted: NFT Marketplace for the exchange of

Sendit: Developed a supply-chain management solution using Hyperledger Fabric and Java in a collaborative open-source project hosted by Web3.0 school.

Education

The University of Exeter 2019 – 2021 (Partially completed)   Natural Sciences (Bsc.)
Relevant Modules: Computational Physics, Statistics, Mathematical Modelling

Southend High School for Boys Sixth Form   2011 - 2013
A-Levels: Mathematics A   Physics B   Economics A   General Studies B

Professional Certificates

Association of Chartered Certified Accountants (ACCA)   April 2022
Professional Certificate in FinTech for Finance and Business
- Machine Learning for Finance Professionals
- Cybersecurity for Financial Professionals
- Robotic Process and Intelligent Automation for Finance

Certificate of Professional Development (CPD)   May 2021
Blockchain / Digital Assets / Fintech Essentials / Private Equity / Big Data

IBM Blockchain Development Certificate   June 2022
Certified Blockchain Developer, Blockchain Council   July 2022
Certified Hyperledger Fabric Developer, Linux Foundation   January 2023
CHARTERED BLOCKCHAIN ANALYST - CBA® Level 1   May 2023
CHARTERED DIGITAL ASSET ANALYST - CDAA® Level 1   May 2023

Work Experience

Brokerage Operations Associate   Freetrade Ltd.   December 2022 - Present
- Processed over 3000 stock transfers worth over £3 million for a Trading Platform, including ISA, GIA and SIPP portfolios comprising US/UK stocks and securities.
- Mastered operational processes of Investment Platforms such as Gaudi, CREST (Electronic Share Transfer), DTC (Settlements) and Origo (Transfers).
- Proposed solutions in data automation to streamline manual processes in stock orders, exploring the integration of ML and natural language processing algorithms to reduce operational times and costs of inbound and outbound transfers..
- Managed a diverse workload and upheld over 100 client accounts, working within SLAs and regularly exceeding business targets.
- Worked diligently and accurately to ensure regulatory and procedural compliance.
- Developed an intimate knowledge of existing U.K. and E.U. financial regulation (F.C.A. & P.R.A.)
- Thrived in adaptable role in a fast-paced Fintech start-up

Payment Operations   Monzo Bank Ltd.   October 2021 - December 2022

- Managed customer accounts, processing payment transactions, and communicating with stakeholders
- Traced payments through the backend, dealing with raw JSON files and payment network infrastructure which involved identifying bugs and errors in the network to resolve delayed transactions and missing payments
- Collaborated with back and front-end developers to give user feedback on operability of the App.
- Held meetings with diverse stakeholders (payments teams, operations, financial regulators and business managers) to streamline operational efficiency.
- Proposed automation
- Embodied Start-up and Fintech culture with fast career progression and excellent performance reviews.

Blockchain Research University of Exeter, Department of Computer Science May - October 2021

- Conducted research on the blockchain technology and its applications in the healthcare industry.
- Successfully acquired grant funding from the Engineering and Physical Sciences Research Council (UKRI)
- Led research project concerning the applications of blockchain technologies in genomics.
- Systematic review of literature in the field of medical data analytics and biobank cybersecurity for the purpose of preserving the integrity of patient information.
- Liaised with Senior Computer Science Professors and phD researchers to manage the project.
- Operated modular debugging tests to improve network efficiency
- Tools: VS Code and Anaconda (Jupyter, Pycharm and Spyder), Python, Golang and Java.

Blockchain Development   Quantum Minds Ltd.   December 2018 - April 2020

- Literature review of leading blockchain projects in the context of both cryptocurrencies and supply line networks.
- Writing reports concerning the use case and application of cryptographic technologies, which included in-depth reports on Ethereum
- Writing and deploying smart contracts on solidity, Ethereum and Hyperledger.
- Web3 site development using Java, Javascript and SQL.
- Tutored introductory coding languages and computer science to underrepresented demographics in STEM.

Professional References
For further insight into work ethic and professional conduct, references are available on request.