MARCUS WONG QI

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CAREER OBJECTIVE

Marcus is a curious Ethereum enthusiast, who enjoys implementing blockchain solutions. He proactively develops smart contracts & use cases to test the boundaries of blockchain, especially in leveraging off-chain methods.

He is confident that he is your ideal candidate for the **Founding Smart Contract Engineer role at Spindl** because of his speech to charter the web3.

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But speeches are for campaigning.

Now is the time for action, let's bridge web2 to web3**.**

Marcus has prepared a proposal for Spindl's technical architecture and in-depth blockchain portfolio, skip to page 2 for more details

SKILLS

– **Blockchain Development** – Solidity, InterPlanetary File System (IPFS), use of JavaScript SDK libraries (web3.js & ethers.js) & protocols (Snapshot & The Graph)
– **Other Technical skills** – GraphQL, JavaScript, Power Automate, Power Query/BI
– **Problem-solving** – He learns Ethereum and web3 programming by watching tutorials, reading documentation, Stack Overflow forum and Discord channels.
– **Personal Impact** – He's optimistic about blockchain as emerging tech, but also its limitations. Nevertheless, I'm eager to showcase my passion in helping clients migrate from web2 to web3 technologies
– **Languages** – Fluent in English, writes professionally about Esports

PROFESSIONAL EXPERIENCE

Business Transformation Lead, Accenture, Malaysia

Jan 2022 – ongoing

– As a BT Lead, he drives operation maturity and innovation for a video-sharing and search engine client. He applies Green Belt Six Sigma methodology and governs its implementation to ensure the operations team is stable and can achieve its service-level agreements (SLA).
– He is familiar with his client's content moderation review process, which he also drives innovation on the floor by hosting ideation drives and actively collaborate with his colleagues to propose solutions/insights to the client.

Ethereum Blockchain Developer, Self-employed

Feb 2021 – ongoing

– He develops **Solidity** smart contracts in Ethereum and other EVM-based blockchains (Polygon & Binance). He uses open-source development tools, such as Remix IDE & OpenZeppelin, to implement industrial-grade solutions.

– As a **Lean Six Sigma** advocate, Marcus is aware of the limitations of Ethereum to store large data and how unscalable it is to execute repetitive transactions. Hence, he works with ECDSA algorithm, signatures, and off-chain infrastructures such as **Snapshot** and **The Graph protocols**.

– He is proficient at Snapshot, an off-chain voting protocol, in which he has used **Gnosis Safe** integration to automate smart contract functions.

– Additionally, he queries event logs with **GraphQL** and builds subgraphs on The Graph, an indexing protocol for retrieving blockchain data. This enables retrieval of data without on-chain transactions.

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Proposal: Spindl's smart contract & other integrated protocols

Marcus prepared a proposal and demo of distributed architecture for Spindl, which rely on high transaction throughput. It is efficient, affordable & scalable at core.

Visit his Github folder for: [Proposal for Spindl](#) / [Smart Contract](#) / [Subgraph](#)

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Personal Project: Community-driven review service with regulated token airdrop

– Marcus is developing a voting-based review service, powered by Snapshot's off-chain voting module and an ERC-20 smart contract with gasless token airdrop:
  1) The voting process is done via **signing messages** and signatures
  2) The content is saved as JSON files onto **IPFS via Pinata** API
  3) The token airdrop is done efficiently and securely by automating the generation of **signature-based vouchers**.
  4) Governance by **logging events of redeemed tokens** using a **subgraph**

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Smart Contracts: Additionally, he builds various dApps to communicate with smart contracts via **web3.js** or **ethers.js** SDK libraries. These smart contracts include:

– ERC-20 **cryptocurrency** with **authorized user whitelist** function
– ERC-721, ERC-721A, ERC-4907 & ERC-1155 **NFT standards**
– **ECDSA decoding** smart contract to verify signatures
– **Zero-proof knowledge** smart contract using zkSNARKs
– **Staking** smart contract

His sample of published smart contracts: [erc-20 with whitelist](#) / [erc-1155](#) / [staking contract](#)

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Other details and background

Reporting Analyst, Accenture   Sept 2020 – Dec 2021

– As a reporting analyst, his responsibility revolves around providing timely and accurate Excel reports using **Power Query/BI**.

– His career as a reporting analyst is not limited to reporting, as he often takes opportunities from subsidiary teams to leverage their Excel dashboards. He uses **Power Platform automation** to develop solutions that either improve efficiency or reduce waste in existing processes.
His notable works include:
1. **Automated Ad Hoc Request System via Email and Power Automate**
   Workforce Management analysts spend 28% of working hours on email-checking routine. The analyst's capacity to complete ad hoc requests is by their idle time. Identified objective is to improve delivery time and capacity by increasing to 6.6 hours of idle time per analyst.
2. **Forms and Dashboard Automation for subsidiary teams**
   Auditors are spending 16 hours/month consolidating forms into a report. Identified objectives were to reduce hours spent by auditors from 16 hours/month to 5 minutes/month and to improve accuracy by reducing human intervention. Developed using Microsoft Excel and Power Query.

Freelance Staff Writer, Catena Media   Mar 2020 – ongoing

– Over the three years of his writing career, he demonstrated **English proficiency** by working with editorial teams to discuss content and SEO keywords. His articles range from evergreen articles, tournament and match analysis, SEO articles.

CERTIFICATION

– **Green Belt Six Sigma** – He's trained and is working on getting certified by KPMG's Lean Green Belt Six Sigma CDP.
– **KUMON English Program Completionist** – It's a certified English course that leveraged his English proficiency, notably in critical reading and interpreting case studies.

EDUCATION

Asia Pacific University & Staffordshire University – Malaysia/UK – BSc (Hons) in Software Engineering

– A considerable duration of hours is dedicated to familiarizing the typical **software development lifecycle**. The degree also taught him fundamentals of programming languages and **agile approaches**.
– He developed a freelance-based portfolio system as his final year project. It is a website using **PHP** with **JavaScript, CSS**, and **HTML5** for front-end.
– His CGPA is **3.40**