Aiden Mori

Senior Full Stack Engineer

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Summary

Senior Full Stack Engineer and Blockchain Developer with 9+ years of experience building scalable SaaS, fintech, and digital asset platforms across Web3, healthcare, and high-concurrency distributed systems. Specialized in TypeScript, Node.js, and React ecosystems with strong expertise in backend architecture, exchange and wallet infrastructure, smart contract integration, and AI-enabled cloud-native applications. Experienced in designing secure, high-performance platforms from system architecture through production deployment.

Work Experience

DIFINES
Senior Full Stack Engineer

Remote
Feb 2024 – Jan 2026

- Led architecture and development of the DFS Chain ecosystem, a Web-based Layer-0 blockchain platform implementing a centralized ledger and transaction engine simulating decentralized infrastructure for wallets, exchanges, token issuance, launchpads, and digital asset services.
- Designed and implemented DFS Scan, a blockchain explorer comparable to Etherscan/BscScan, delivering real-time block aggregation, transaction indexing pipelines, and optimized analytics for large-scale ledger inspection.
- Engineered MetaFace Wallet, a MetaMask-style digital asset wallet supporting DFS-native and bridged Web3 assets, implementing wallet abstraction, transaction execution workflows, and secure authorization across ecosystem applications.
- Developed Quick IDO, a hybrid exchange and launchpad supporting Web3↔Web3, Web2↔Web2, and Web3↔DFS asset bridging, including custody handling, liquidity settlement, and cross-ledger deposit/withdrawal pipelines.
- Built Moegi IDO platform enabling project onboarding, whitelist validation, vesting configuration, and automated token distribution integrated with shared ledger infrastructure.
- Implemented DFS WhiteCreator, enabling no-code token issuance with configurable supply models, ownership governance, and ecosystem-wide integration with wallet and exchange services.
- Architected WEX, an AMM-style trading platform similar to PancakeSwap implementing swap routing, pricing algorithms, liquidity accounting, and centralized settlement backed by ledger state management.
- Developed Uhalisi, a ledger-backed digital content registration system providing timestamped ownership verification and immutable metadata validation.
- Built POIPI, a token airdrop and campaign orchestration platform implementing automated reward distribution and wallet-based participation tracking.
- Designed Burn-to-Earn economic mechanisms, integrating token burn tracking, emission modeling, and automated reward distribution within DFS tokenomics.
- Architected shared ledger and transaction infrastructure including block simulation, confirmation handling, wallet synchronization, and cross-application interoperability.
- Implemented cross-ledger asset bridges integrating external Web3 networks via blockchain event monitoring, asset mint/burn mapping, and secure settlement workflows.
- Integrated AI-assisted analytics and operational automation to monitor transaction behavior, improve ecosystem insights, and support intelligent platform management workflows.
- Leveraged LLM-assisted engineering workflows to accelerate development, automate debugging/testing processes, and improve delivery efficiency across distributed services.
- Optimized backend services, database schemas, and caching strategies supporting high-throughput financial operations across interconnected DApps.

Dwayne
Back End Engineer

Remote
Aug 2023 – Feb 2025

- Engineered scalable backend infrastructure using Node.js, TypeScript, Express.js, and MongoDB supporting 5M+ daily

transactions with 99.9% uptime.

- Designed real-time communication and gaming interaction systems using Socket.io, improving user engagement and retention by 30%.
- Developed AI-assisted payment processing and fraud detection workflows, improving transaction speed by 50% while strengthening platform security.
- Implemented secure authentication architecture using JWT, CAPTCHA, and session orchestration reducing unauthorized access by 40%.
- Built affiliate and referral systems increasing traffic by 40% and driving measurable revenue growth.
- Designed customer ticketing workflows reducing average response time from 48h to 12h.

Decent Reviews   Remote
Back End Engineer & Smart Contract Developer   Apr 2023 – Aug 2023

- Crafted a user review API and automated review aggregation engine using Node.js, TypeScript, and Express.js, improving data collection efficiency by 50% for the customer support team.
- Established a badge generation engine, resulting in a 25% increase in user-generated content shared across social media, improving brand visibility and engagement.
- Integrated Ethereum smart contracts via Web3.js enabling automated verification workflows and reducing manual operations by 60%.
- Implemented CI/CD pipelines using GitHub Actions improving deployment reliability and reducing release failures.
- Generated detailed API documentation with Swagger and conducted thorough API testing using Cypress and Jest, boosting developer onboarding by 40% and increasing system uptime by 15%.
- Containerized backend services with Docker, reducing database response times below 200ms.

KURONURI   Remote
Blockchain Full Stack Engineer   Jan 2021 – Apr 2023

- Spearheaded the creation of a comprehensive DeFi ecosystem, token generation and ICO platforms, 5 play-to-earn games, 2 NFT marketplaces, and 10+ Web3 projects.
- Developed an auto DEX bot for Burn&Drop that executed trades in under 2 seconds, increasing transaction efficiency by 40% and enhancing user engagement across the platform for over 1,000 active users.
- Designed a series of robust token bridges that facilitated seamless asset transfers across five different blockchain networks, enhancing transaction efficiency and improving cross-chain communication by 40% within the first quarter of implementation.
- Automated the integration process between React.js front-end and smart contracts using Web3.js and Ethers.js; streamlined deployment time by 60%, allowing quicker updates and feature rollouts for end-users.
- Built a robust internal back-end system by synchronizing with a blockchain database using Node.js and Express.js; improved data retrieval speed by 40% while enhancing security measures across the platform.
- Reconstructed existing API endpoints to utilize GraphQL, providing a more flexible data querying mechanism; this effort yielded a 50% reduction in code complexity, improving maintainability across the development team.
- Managed CI/CD processes for the development team, utilizing CircleCI, Bitbucket, GitHub, and AWS Lambda functions; achieved a 40% reduction in deployment time and improved overall software quality.

Defichain Value   Remote
Smart Contract Developer   Apr 2020 – Jan 2021

- Developed and deployed smart contracts supporting liquidity pools and yield farming strategies on Binance Smart Chain.
- Achieved full automated testing coverage using Truffle and Hardhat frameworks.
- Built Web3 interfaces improving staking and liquidity onboarding workflows.

Incarta   Remote
Software Engineer (MERN Stack)   Apr 2019 – Apr 2020

- Contributed to development of cloud-based healthcare and clinical data platforms supporting real-time patient monitoring and electronic medical record workflows aligned with Incarta's mission of improving healthcare accessibility through scalable medical technology solutions.
- Designed and implemented interactive clinical visualization dashboards using React.js and D3.js to present physiological and patient data insights, improving accessibility of complex medical datasets for healthcare professionals during high-demand COVID-19 operations.
- Developed scalable backend services using Node.js, Express, and MongoDB, enabling secure ingestion, processing, and visualization of high-volume clinical and operational data streams.
- Collaborated with cross-functional teams including clinicians and infrastructure engineers to deliver user-centric healthcare applications emphasizing reliability, usability, and data accuracy in critical care environments.
- Implemented performance optimizations and responsive UI architectures improving system usability and contributing to measurable increases in treatment workflow efficiency.
- Supported deployment of applications within private cloud environments, ensuring secure handling of sensitive healthcare data and compliance with medical system reliability requirements.

Open Agent   Remote
Front End Developer   Aug 2017 – Apr 2019

- Developed and maintained large-scale web applications using React.js, TypeScript, HTML5, and CSS3, delivering reusable and maintainable UI component architectures.
- Built over 100+ production-grade UI components following modern frontend patterns, improving development scalability and consistency across applications.
- Collaborated within Agile teams to translate product and design requirements into performant frontend implementations, accelerating feature delivery timelines by approximately 25%.
- Led frontend debugging and stabilization efforts, resolving 300+ production issues across application lifecycle stages and improving platform reliability.
- Implemented responsive layouts and cross-browser compatible interfaces ensuring consistent user experience across desktop and mobile environments.
- Participated in continuous integration workflows, application testing, and release cycles to maintain production stability.

Education

Victoria University   2013 - 2017
Bachelor of Science (BS), Computer Science Engineering

Skills

Frontend: React.js, Next.js, Vue.js, TypeScript, JavaScript, Redux, Context API, Zustand, HTML5, CSS3, Responsive Design, SPA Architecture, Progressive Web Apps (PWA), Frontend Development, Vite, Tailwind CSS, Sass/SCSS, shadcn/ui, Modern React Patterns, Design Systems, Component Libraries, Storybook, Frontend Performance Optimization, Clean Code Practices, Figma Collaboration, UI/UX Systems, Visual Design Implementation, MUI (Material UI), Digital Products Development, Interaction Design, Product Design Principles, User Experience (UX), UX/UI, UX Design, React Native, Mobile Development

Backend: Node.js, Express.js, RESTful APIs, GraphQL, Backend Development, Workflow Orchestration, Distributed Task Processing, Scheduling & Queuing Systems, Rate Limiting, Serverless Architectures, Algorithms, Microservices Architecture, SOLID Principles, Data Structures, Design Patterns, Payment Systems Integration (Stripe, ACH), Fintech Platforms, SSO (Single Sign-On), Team Management Systems, Test Infrastructure, Linux/Unix Operating Systems, API Integration, OpenAPI/Swagger, Java, Python, Django, Go

AI & Artificial Intelligence: AI-Assisted Development (GitHub Copilot, ChatGPT, Cursor), OpenAI API Integration, Claude API Integration, LLM Integration, Prompt Engineering, LangChain, LLM Orchestration Frameworks, AI Development & Platform Architecture, AI Agents, AI-Augmented Engineering Workflows

Blockchain & Web3: Ethereum, Solidity, Rust , Web3.js, Ethers.js, Smart Contract Integration, Cryptocurrency, DeFi, NFT, DEX Architecture

Forms & Validation: Formik, Zod, Schema Validation, Secure Input Handling

Databases & Data: MongoDB, PostgreSQL, MySQL, Redis, Elasticsearch, Firebase/Firestore, Supabase, Database Architecture, Query Optimization, JSON Processing, Healthcare Data Standards (HL7, X12, EDI), Large-Scale Data Pipelines, Data Modeling, Indexing, Performance Optimization

DevOps & Cloud: AWS, Azure, GCP, Azure AI Services, Docker, Kubernetes, Infrastructure as Code (Terraform), Continuous Integration, Continuous Deployment, CI/CD, GitLab CI/CD, DevOps Practices, Serverless Deployment, Structured Logging, Observability, Tracing, Enterprise AI Deployment, Git

Testing & Quality: Test-Driven Development (TDD), Jest, React Testing Library, ESLint, Prettier, Automated Testing, Code Quality Enforcement

Security: JWT, OAuth, RBAC, Session Management, API Security, PCI Compliance, Secure Fund Flows, Payment Authorization Standards, SSO, Identity & Access Management (IAM), Permissions Modeling, AI Security, Prompt Injection Prevention, LLM Security Considerations

Architecture: Full Stack Architecture, Distributed Systems, System Design, High-Concurrency Systems, Scalability Engineering, Identity Systems, Authorization at Scale, Refactoring Practices

Methodologies & Soft Skills: Agile, Scrum, Agile Software Development, Code Review, Technical Mentorship, Coaching, Ownership, Team Collaboration, Innovation, Strategic Thinking, Decision-Making, Adaptability, Self-Starter Mindset, Written & Verbal Communication, Feedback-Driven Development, Software Development Lifecycle (SDLC), Testing (Unit testing, Integration, Jest), Problem Solving, Advanced Analytical and Problem-Solving Techniques, Technical Research, AI Solution Architecture, Continuous Improvement, Ethics, Attention to Detail, Code Quality