

Lamar Bayer

Blockchain & AI Engineer

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SUMMARY

Experienced Software Engineer with a strong background in building scalable web applications, developing secure blockchain solutions, and delivering AI-powered products. I am passionate about using technology to create efficient, user-focused solutions that drive real-world impact.

SKILLS

Programming Languages

HTML, CSS, JavaScript, TypeScript, Python, Java, C/C++, Rust, Solidity, Move, FunC

Frameworks & Libraries

React.js, Next.js, Svelte, Nest.js, TailwindCSS, Material-UI, Bootstrap, React Native, Laravel, WordPress, Express.js, Django, FastAPI

Blockchain Development

- Anchor, Solana SDK, Solana/web3.js, Truffle, Hardhat, Foundry, web3.js, ethers.js
- DeFi, Swap, Staking, Bond, Farming, DEXs, Lending & Borrowing, Voting, Launchpad, NFT, Stablecoins, Pyth Oracle
- Cross Chain, Bridge, LayerZero, Wormhole

AI/ML Machine Learning & Data Science

OpenAI APIs, Hugging Face Transformers, Prompt Engineering, NLP, YOLO

Databases

MySQL, NoSQL, MongoDB, PostgreSQL, Firebase, SQLite, Redis

Cloud, DevOps & Tools

AWS, Azure, GCP, REST API, GraphQL, Docker, Kubernetes, Jenkins, CI/CD Pipelines, Git, Jira

Soft Skills

Project Management, Mentoring, Collaboration, Problem Solving, Self-Motivation, Proactiveness

EXPERIENCE

AI & Blockchain Engineer

06/2024 – 03/2025

Speedlaunch AI

- Designed and deployed AI models that converted user-submitted ideas into fully structured MVP blueprints, producing technical documentation, deployable codebases, and initial smart contract templates.
- Architected and implemented secure smart contracts supporting instant token creation with dynamic bonding curve pricing mechanisms, ensuring fair market discovery for newly tokenized ideas.

- Built AI-driven brand asset generators, creating automated logo designs, brand style kits, whitepapers, and custom marketing materials, reducing go-to-market time for new projects by 70%.
- Developed AI content strategy engines that generated personalized one-month content calendars, blog posts, and social media campaigns to bootstrap community engagement automatically after project launch.
- Engineered the seamless idea trading marketplace, integrating Next.js frontend, allowing users to launch, trade, and manage tokenized projects with minimal friction.
- Automated liquidity provisioning workflows by integrating smart contracts with decentralized exchanges (DEXs), ensuring newly launched tokens had immediate trading access and liquidity pools.
- Built and maintained secure APIs and backend services to manage off-chain metadata storage (IPFS) and real-time user interaction with AI generation pipelines.
- Implemented AI optimization techniques, such as fine-tuning Transformer models and leveraging prompt engineering strategies with OpenAI and Hugging Face APIs to increase content accuracy and project relevance by 20%.

Sr. Blockchain Developer

09/2022 – 05/2023

Scalac

- Designed, developed, and deployed secure, efficient smart contracts on both Solana and EVM-compatible blockchains, enabling seamless interaction between decentralized applications and wearable devices.
- Conducted rigorous unit testing, integration testing, and third-party audits on smart contracts to ensure the highest standards of security and prevent vulnerabilities, following best practices like OpenZeppelin standards.
- Built and maintained backend services to support blockchain interactions, including off-chain data storage, RESTful API endpoints, and real-time database synchronization using PostgreSQL and Redis.
- Architected systems to integrate blockchain functionalities — such as decentralized storage (IPFS), multi-party computation (MPC), and zero-knowledge proofs (zk-SNARKs) — with wearable device ecosystems, ensuring data integrity, privacy, and verifiability.
- Developed authentication and secure access control systems using JWT, OAuth2, and decentralized identity (DID) standards to facilitate safe interactions between users, wearables, and third-party services.
- Engineered real-time data pipelines that aggregate and process health and biometric data from wearable devices while enforcing strict data privacy protocols and regulatory compliance (GDPR, HIPAA standards).
- Collaborated closely with product managers, UX/UI designers, and firmware engineers to align blockchain-powered features with a seamless user experience across mobile and IoT platforms
- Maintained continuous awareness of emerging trends, vulnerabilities, and advancements in Web3, smart contract development, and decentralized backend infrastructure to ensure the adoption of best-in-class practices.

Blockchain Developer

09/2021 – 06/2022

Etherfuse

- Developed and deployed secure, efficient Solana programs using the Rust Anchor framework, enabling tokenization and trading of real-world assets (RWA).
- Designed comprehensive unit and integration test suites to ensure program stability, achieving 90 %+ test coverage.
- Conducted internal security audits, identifying and mitigating vulnerabilities pre-deployment to enhance smart contract resilience.
- Integrated SPL Tokens and Metaplex Core standards, enabling seamless NFT and token interoperability within the protocol.
- Collaborated with backend and product teams to define and deliver critical protocol features under Agile methodologies.

- Monitored on-chain transactions, debugged program interactions, and optimized runtime performance for reduced transaction costs.

Full Stack Developer

11/2019 – 07/2021

BairesDev

- Architected, developed, and deployed scalable, high-performance web applications using a modern tech stack including Node.js, Express.js, React, ensuring seamless integration between frontend and backend systems.
- Designed and implemented advanced RESTful APIs and GraphQL services, enabling secure, efficient data exchange, supporting dynamic user interactions, and improving API response efficiency.
- Developed dynamic, responsive UI components with React, using modern libraries such as Material-UI and TailwindCSS to enhance user experience and maintain consistent design standards.
- Managed and optimized AWS cloud infrastructure, configuring services such as EC2, Lambda, S3, and RDS to ensure high availability, disaster recovery, and cost optimization across multiple environments.
- Implemented containerization and orchestration strategies using Docker and Kubernetes, standardizing development environments and reducing deployment times by 25%.
- Championed integrating modern technologies like TypeScript, Next.js, serverless computing (AWS Lambda, API Gateway), and JAMstack principles, driving significant gains in performance, scalability, and security.
- Built and maintained end-to-end CI/CD pipelines using Jenkins, GitHub Actions, and Docker, automating testing, building, integration, and deployment processes to enable fast, reliable, zero-downtime releases.
- Integrated third-party APIs (Stripe, Twilio, Auth0) to add critical business functionalities like secure payment processing, real-time notifications, and streamlined user authentication.

Frontend Developer

09/2018 – 10/2018

Booth & Partners

- Developed responsive, high-performance e-commerce frontend using React.js, achieving a 30% improvement in page load speed and enhancing user experience across desktop and mobile devices.
- Built a library of reusable UI components with Material-UI, ensuring consistent design patterns and significantly accelerating feature development.
- Collaborated with backend teams to design and integrate RESTful APIs, using Axios and best practices to optimize data flow between the frontend and backend services.
- Implemented secure user authentication flows with JWT and integrated OAuth2-based third-party login systems to streamline user onboarding.
- Participated in migrating the frontend codebase from JavaScript to TypeScript, improving type safety, reducing runtime errors, and enhancing overall code maintainability.
- Researched and advocated for performance enhancements, including implementing caching mechanisms with Redis, which contributed to a smoother and faster user experience.

EDUCATION

University of the Philippines Diliman

2014 – 2018

Bachelor's Degree in Computer Science