Jacob Fecunda

Full Stack & Blockchain Developer | Software Engineer

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Professional Summary

Forward-thinking Full Stack Developer experienced in Java, developing decentralized applications, smart contract development, and front-end design and development. Proven ability to deliver robust, scalable, and user-focused solutions leveraging Agile methodologies, modern frameworks, and solid design principles. Strong communicator committed to fostering a positive work environment.

Skills

Programming Languages: Java · JavaScript · TypeScript · Python · Solidity · SQL · HTML · CSS

Frameworks & Libraries: Spring Boot · React.js · Next.js · Hardhat · Foundry · Tailwind CSS · Bootstrap

Databases & APIs: SQL · SQLite · GraphQL · REST

Testing & Tools: JUnit · Mockito · Jest · Mocha · Chai · Swagger · SonarLint · Git · Docker

Design & Methodologies: UML · OOP · SOLID Principles · CI/CD · Microservices · Agile · TDD

Core Competencies: Problem Solving · Team Collaboration · Prompt Engineering

Professional Experience

Software Engineering Consultant | FDM Group   Oct 2024 – Present

- Completed an intensive consultant training program, enhancing expertise in Java, Agile methodologies, and advanced software engineering practices.
- Engineered RESTful APIs with Spring Boot and employed TDD with JUnit and Mockito to deliver robust, modular services with sub-50ms response times.
- Applied core Object-Oriented Development principles—such as inheritance, polymorphism, encapsulation, and abstraction—and adhered to Clean Code practices using SOLID principles, design patterns, and SonarLint.
- Actively engaged in Agile ceremonies, contributing to the delivery of complex features, including account management systems, and optimized SQL queries for dynamic data manipulation and reporting.

Freelance Frontend Engineer   May 2022 – Present

- Developed frontend interfaces for 6+ clients using React.js and Tailwind CSS.
- Collaborated with backend teams, ensuring 100% on-time project delivery.

Junior Frontend Engineer | Nethermind   May 2024 – Oct 2024

- Enhanced the Starknet block explorer "Voyager" with a modular design system, achieving 100% accessibility/snapshot test pass rate.
- Developed an MVP for integrating AI features into Voyager using Next.js, TypeScript, ShadCN UI, and REST APIs to enhance user interaction and data analysis capabilities.
- Built an MVP for a Cairo course learning platform, utilising server-side and client-side rendering alongside advanced React Hooks for efficient state management, optimising application performance and efficiency.

Software Developer Intern | Otermans Institute   Jun 2021 – Aug 2021

- Directed a team of 5 developers, completing 3 Agile sprints on time.
- Streamlined data preparation for ML, reducing development cycles by 40%.

Projects

GENFT | Personal Blockchain Project

- Developed a Solidity contract for NFT staking, facilitating user rewards for NFT holdings, that used OpenAI's DALL-E for image generation and wagmi.sh for Ethereum blockchain interactions.
- Enhanced UX with a responsive design, featuring live previews, input validation, and notifications for efficient NFT creation.

CrepCrypt | Hackathon Project

- Led the frontend team, delegating tasks and providing guidance with clear communication using agile methodologies.

- Co-developed smart contracts, integrating Chainlink for AI validation and OpenZeppelin for enhanced security.

Competition Voting DApp | Personal Blockchain Project

- Developed a Solidity smart contract for a blockchain competition platform, featuring a dynamic, secure voting system, which implemented robust state management and security measures, tested using Hardhat and Chai.

Education

Brunel University London   **Sep 2020 – Jun 2023**

BSc (Hons) Computer Science (AI)
Achieved First Class Honours

Key Modules: Algorithms and Applications · Software Development · Web Development · Cybersecurity · Artificial Intelligence · Machine Learning · Object Oriented Programming · Human Computer Interaction

Extracurricular Activities

- **Community Engagement:** Active participant in Solana and Chainlink meetups, staying at the forefront of Web3 and blockchain developments.

- **Content Creation:** Managed a TikTok account, amassing 15,000+ followers and over 1M likes through AI-powered content.