Wikus Kriek

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PROFESSIONAL SUMMARY

Software engineer with a focus on blockchain systems, full-stack JavaScript development, and backend services in TypeScript. Experienced in building decentralized applications, smart contract integrations, and arbitrage systems across EVM and Antelope chains. Strong foundation in web APIs, mobile applications, and open-source collaboration. Known for reliable code, clean architecture, and hands-on implementation from backend logic to front-end delivery.

CORE COMPETENCIES

Decentralized Application Development • Full-Stack Web Engineering • Smart Contract Integration • Blockchain Protocols (EVM & Antelope) • Backend API Architecture • Real-Time Data Systems • Technical Problem Solving • Code Review & Quality Control • Open-Source Collaboration • Agile Development Workflows • Mobile App Development • System Debugging & Testing • Cross-Platform Integration

PROFESSIONAL EXPERIENCE

Blockchain Engineer
Y-Knot Blockchain Solutions — Centurion, Gauteng | March 2022 – Present
- Built decentralized applications for the Telos blockchain, including block explorers and a decentralized trading interface using React, Node.js, and TypeScript. Designed front-end logic and backend API calls for smooth wallet integration and data retrieval.
- Developed three NFT platforms with smart contract integration on EVM-compatible networks, managing metadata rendering, wallet transactions, and smart contract event tracking.
- Created an arbitrage bot that connected to both centralized and decentralized exchanges. Implemented price feed normalization, trade signal logic, and execution routines using Node.js and Web3.js.
- Guided a team of 4 developers, organizing sprints, reviewing code, and resolving blockers related to smart contract deployment, frontend bugs, and API integration.

React Native Developer
Expensify (Open Source Contributor) — Remote | June 2023 – March 2024
- Added new UI features and resolved bugs for an open-source expense tracker built in React Native. Contributed improvements that helped reduce crash frequency and enhanced user interactions.
- Reviewed pull requests from global contributors, offering structured feedback and identifying issues related to app architecture, performance, and styling consistency.
- Refactored older components and reduced technical debt by improving state management and modernizing Redux patterns in shared modules.
- Collaborated with a distributed community via GitHub and Slack, ensuring alignment with project guidelines, issue tracking, and release timelines.

Full Stack / Mobile Developer
WIM Technologies — Johannesburg | November 2020 – March 2022
- Built and maintained web APIs using C#, .NET, and Django to decode and process low-level cellular messages. Integrated outputs into internal dashboards for technical staff.
- Updated Android and web app features using Java, HTML, CSS, and JavaScript to support operational workflows, improving reliability and interface usability.
- Synced data flows between mobile and web apps to maintain consistency in user actions and backend data processing.
- Documented REST endpoints and created API testing scripts to speed up debugging and internal QA processes.

Engineering Intern
Jericho Systems Pty Ltd. — Potchefstroom | January 2018 – January 2020
- Developed components for a magnetic encoder system using C++ and Python, assisting with firmware development, calibration routines, and integration with PC software.
- Built a machine learning model in Python for assessing face image quality, helping automate dataset filtering for internal computer vision research.
- Designed mechanical parts in FreeCAD and supported hardware prototyping efforts, including fit testing and minor design revisions.
- Participated in small-scale embedded systems projects and contributed to debugging, documentation, and sensor data analysis during development phases.

PROJECTS

Degen Sentiment: Developed a crypto market sentiment website with real-time updates using React, Redux, WebSockets, Node.js, and Express. Built the frontend UI and API layer to handle live sentiment feeds and price data.

Arbitrage Bot: Designed a high-performance system for real-time arbitrage across centralized and decentralized exchanges. Implemented trading logic and market data handling in Node.js and TypeScript.

NFT Platforms (x3): Built three NFT marketplaces on EVM-based chains with wallet integrations, token minting features, and smart contract event handling. Responsible for both front-end architecture and backend interaction logic.

EDUCATION

BEng in Computer and Electronics Engineering
North-West University (NWU), South Africa | Graduated: 2020

TECHNICAL SKILLS

- **Blockchain & Web3:** Smart Contracts, EVM Chains, Antelope Chains, Web3.js, Ethers.js, NFT Development, Arbitrage Bots
- **Languages & Frameworks:** JavaScript, TypeScript, Node.js, Next.js, React, React Native, Express.js, C++, Python, Java, C#
- **APIs & Backend:** REST APIs, Django, .NET Core, MongoDB, MySQL
- **Dev Tools & Environments:** Git, GitHub, Android Studio, Docker
- **Other:** Socket.io, Redux, WebSockets, FreeCAD

HOBBIES & INTERESTS

Machine Learning • Blockchain Technologies • Mobile Development • Web Development • Embedded Systems • Canoeing • Sports