

Wikus Kriek

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PROFESSIONAL SUMMARY

Software engineer with experience building distributed systems, full-stack web applications, and backend services using JavaScript, TypeScript, and C#. Skilled in designing and implementing web APIs, mobile applications, and real-time data systems. Focused on creating reliable, maintainable codebases and delivering end-to-end solutions across multiple platforms, including web, mobile, and embedded environments. Experienced in collaborating with open-source communities and internal development teams to improve product stability, usability, and performance.

CORE COMPETENCIES

Full-Stack Web Development • Backend API Design • Real-Time Data Systems • Mobile App Development • Distributed Systems Architecture • REST API Integration • JavaScript and TypeScript Development • C# and .NET Development • Cross-Platform Synchronization • Frontend and Backend Debugging • Open-Source Contribution • System Testing and QA Support • Agile Development Practices • Embedded Systems Support • Git and Version Control

PROFESSIONAL EXPERIENCE

Software Engineer

Y-Knot Blockchain Solutions — Centurion, Gauteng | March 2022 – Present

- Built distributed web applications using React, Node.js, and TypeScript, handling frontend development, backend API integration, and system architecture for real-time data retrieval and secure transaction handling.
- Designed backend services to manage large volumes of user and transactional data, ensuring efficient retrieval, state updates, and secure client-server communication across multiple systems.
- Developed and maintained automation tools for real-time data normalization, event-driven workflows, and cross-network system operations, improving the speed and accuracy of internal processes.
- Managed a team of four developers by coordinating project sprints, allocating tasks based on technical strengths, and providing hands-on support in resolving frontend, backend, and deployment-related technical issues.

React Native Developer (Open Source Contributor)

Expensify — Remote | June 2023 – March 2024

- Added new user interface components and resolved front-end bugs in a large-scale React Native project, helping to enhance the reliability, responsiveness, and visual consistency of the mobile application across platforms.
- Refactored older React Native components by improving state management structures and replacing outdated Redux implementations, contributing to a measurable reduction in app crash rates and technical debt.
- Worked with a global community of developers through GitHub and Slack, reviewing pull requests, tracking project issues, and ensuring that code changes aligned with release goals and quality standards.

Full Stack / Mobile Developer

WIM Technologies — Johannesburg | November 2020 – March 2022

- Developed and maintained backend services using C#, .NET, and Django to process raw telecommunications messages, decode network signals, and deliver structured outputs to internal monitoring dashboards.
- Updated Android and web applications by enhancing functionality with Java, JavaScript, HTML, and CSS, improving operational workflows for field engineers and internal users by reducing application downtime and interface friction.
- Created technical documentation for REST APIs and built automated testing scripts to assist QA teams with early detection of integration errors and backend performance bottlenecks.

Engineering Intern

Jericho Systems Pty Ltd — Potchefstroom | January 2018 – January 2020

- Contributed to firmware development and PC software integration for embedded sensor systems by building C++ and Python components that improved sensor calibration accuracy and reduced firmware update times.
- Designed and trained a Python-based machine learning model to assess image quality, helping automate the filtering process for internal datasets used in computer vision research and hardware validation.
- Supported mechanical prototyping by creating and revising designs in FreeCAD, assisting in fit testing, prototype assembly, and documenting mechanical changes for engineering validation reports.

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