Jackson Khuto

Full-Stack Software Developer

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PROFILE

I approach software by first understanding the business process, the users involved, and the data that needs to move through the system. From there, I design maintainable features with clear separation between the interface, API, business logic, and database layers. I care about secure authentication, role-based access, reliable workflows, useful reporting, and interfaces that are simple for people to use.

EXPERIENCE

Graduate Intern: Application Development & Support · Barloworld Equipment Dec 2025 – Present
Isando, Gauteng

Enterprise Application Development

- Build and enhance internal applications across requirements, feature design, implementation, testing, UAT, deployment, support, and maintenance.
- Develop React and TypeScript interfaces for dashboards, forms, filters, request workflows, validation states, and responsive business screens.
- Implement backend functionality with Node.js, Express, REST APIs, service layers, scheduled jobs, validation, error handling, and database access patterns.

Identity & Security

- Secure applications with Microsoft Entra ID, MSAL, JWT authentication, protected routes, and role-based access control.
- Work with Azure App Registrations, enterprise identity configuration, token handling, and Microsoft Graph integrations.

Business Processes & Reporting

- Deliver approval workflows, request management, dashboards, Excel reporting, audit logs, and SAP-related process support.
- Translate business requirements into usable application flows with clearer navigation, cleaner layouts, and user-focused improvements.

Delivery & Support

- Support IIS and Azure deployments, PM2 process management, environment configuration, build troubleshooting, and release fixes.
- Contribute to UAT support, bug fixing, technical documentation, change management, CAB processes, and production enhancements.

SELECTED PROJECTS

FlowForge — workflow automation platform In development

NestJS backend with authenticated workspaces, versioned workflows, queue-based execution via Redis/BullMQ, a separate background worker, webhooks and third-party integrations; React Flow frontend in progress.

TypeScript · NestJS · React · PostgreSQL · Prisma · Redis · BullMQ · Docker — github.com/jackson951/forge-flow-api

FlexiLeave — leave management system Live

Role-aware application where employees submit and track leave requests and balances while administrators manage approvals, users and reporting, secured with JWT authentication and role-based access control.

React · Node.js · Express · PostgreSQL · Prisma · JWT · Tailwind CSS — github.com/jackson951/flexileave-app

StackMap — AI-assisted codebase exploration

In development

Explore GitHub repositories through natural-language questions, code structure analysis and generated documentation, with Supabase authentication and persistence.

Next.js · TypeScript · Tailwind CSS · Supabase · PostgreSQL · AI integration — github.com/jackson951/stackmap

SKILLS

Frontend	React, Next.js, TypeScript, JavaScript, Tailwind CSS
Backend	Node.js, Express, NestJS, ASP.NET Core (C#), Spring Boot (Java), REST APIs
Data	SQL Server, PostgreSQL, MongoDB, Prisma, Excel reporting
Cloud	Microsoft Azure, Microsoft Entra ID, IIS, Docker, GitHub Actions
Low-Code / Power Platform	SharePoint

EDUCATION

BSc Information Technology · North-West University, Vanderbijlpark

Feb 2022 – Dec 2024