Curriculum Vitae
October 2025

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Personal information

Full name	:	Markus
Surname	:	Fourie
Age	:	25
Nationality	:	Republic of South Africa ("RSA") citizen
RSA ID number:		(Available on Request)
Gender	:	Male
Marital status	:	Single
Languages	:	English and Afrikaans
Licenses	:	Light vehicles, Code EB in RSA (since April 2018)
GitHub	:	https://github.com/ThePedalingDev
LinkedIn	:	https://linkedin.com/in/markus-fourie/
Golden Key	:	https://golden-key-international-honou.verified.cv/en/verify/20892159851455
My website	:	https://markusfourie.dev

Professional summary

Full-stack software- and applications developer, specialising in systems design, development, multi-language programming and systems maintenance, who will complete final year of *BSc. Computer and Information Science Degree*, expected to be received *Cum Laude* in December 2025.

A proficient Software Developer, experienced in developing scalable, web-based, enterprise solutions, including the "*Resource Management System*" of Rimitso Mining Services (Pty) Ltd (being developed under Technical Services and Management Consulting Agreement for *African Mining Solutions Ltd* and its major subsidiary, *Katanga Contracting Services* in DRC) and the *Afrisist Fleet Management Alarm Dashboard* - both of which systems being developed whilst completing Final year of BSc. Degree.

Always ready to take responsibility and initiative, to create high-quality and performance-driven systems and solutions, applying appropriate attention to critical details and pro-active problem-solving skills.

Content to work unsupervised, but always focussed on supporting teams and mentoring, developing and assisting others. Served as Varsity College student tutor, to both junior students and fellow students.

Loyal, hard working and eager to make a difference, to grow and serve people, business and systems

Committed to continuous learning and improvement, striving to become a leading Solutions Architect.

Education

BSc. Computer and Information Science Degree (*Cum Laude**)   **2023 to December 2025**
(Varsity College – Pretoria Campus, RSA)

- *Expected to be received *Cum Laude*, passing 19 of 20 completed modules to date with distinctions.

- 3 Modules of BSc. degree remaining, upon completion of final semester up to November 2025.

- Invited and joined as member of "*Golden Key International Honour Society*", since 2025.

BSc. Physics and Mathematics   **2020 (during Covid) to 2021**
(North-West University - Potchefstroom, RSA)

- Passed 8 semester subjects, including 1 semester subject distinction.

- Incomplete, due to decision to change in career-path to become a focussed Software Developer.

- Originally started with this BSc. Degree, to ultimately convert and become a Mechanical Engineer.

- **Did not complete final 3 Semesters of this Degree, due to personal decision ultimately taken during the Covid Lock-down period, to change career-path and to specialise in Computer and Information Science and Technologies engineering disciplines, serving a wider spectrum of industries, than only those normally served by Mechanical Engineers.

Core technical skills

- **Languages**   : HTML, CSS, JavaScript, TypeScript, C#, Java, Kotlin, SQL

- **Framework & Tools**   : React, Node.js, Express, .NET Core, Tailwind CSS, Docker, Azure, Supabase , Linux Server

- **Databases**   : PostgreSQL, SQL Server, Firebase, MongoDB.

- **Other**   : Git, RESTful API Design, DaisyUI.

Interests, sport and hobbies

- Enjoys various sports, like mountain biking, cycling, gym, running, snow skiing, water skiing.

- Ongoing personal online research, -learning and -reading, to expand general knowledge.

- Spending time with friends and family and traveling.

Employment history

Rimitso Mining Services (Pty) Ltd   **2025 to Present**

(Rimitso Mining Services *(Pty) Ltd* is based in RSA and provides Technical Services & Management Consulting to *Katanga Contracting Services SAS,* DRC)

Position held: Software Developer (on Monthly Retainer, whilst Studying final 2 years of BSc. Degree)

Main responsibilities

- Work-in progress, whilst studying final 2 years of BSc. Degree, to create and develop a scalable, web-based, enterprise solution to serve as the "*Resource Management System*" of Rimitso Mining Services (Pty) Ltd ("RMS"), aimed at serving and solving the operational requirements of *African Mining Solutions Ltd* and its major subsidiary, *Katanga Contracting Services SAS,* (a leading contract mining services company in DRC).

- Working with Senior- and IT management, to automate and speed up business workflows across multiple, large project sites in DRC, improving tracking and internal control, efficiencies and productivities of all mobile assets - whilst ensuring consistency, integrity, and validity of data.

- Responsible systems Architect to develop an enterprise-grade asset management and operations system using C# and SQL Server and JavaScript.

- Set up a RESTful backend API, with Swagger documentation, to ensure clear separation of concerns/business entities, between the front-end and back-end of this system, whilst simplifying systems integration, systems maintenance and continuous change and improvement objectives.

- Implement and maintain EF Core relationships, role-based access control, and Tailwind-styled administrative dashboards.

Key achievements

- Designed and implemented the RMS database structure and modular architecture alongside management, which improved scalability and data integrity.

- Developed and documented a RESTful API using Swagger to ensure a maintainable code base

- Successfully aligned software design and capabilities, with business workflows derived from real-world Excel reference systems and a previous legacy system to be replaced.

- Delivered multiple feature updates and bug-fixes, to enhance system reliability and performance.

Employment history (continued)

Afrisist - Vehicle Alarm Monitoring Dashboard　　　　**2025 Limited Duration Project**

Position held: Software Developer (Specific Project work, whilst Studying final 2 years of BSc. Degree)

Working alongside and closely assisted by a colleague and friend of mine, on a project-specific limited duration engagement with Afrisist, which was handed over during October 2025.

Afrisist already indicated their interests for assistance needed for their ongoing requirements, but prefer to seek alternate, permanent employment, to further personal growth, skills and experience.

Main responsibilities

- Developed a self-hosted React + Node.js + Supabase web application, to create a real-time vehicle and fleet management alarm monitoring and -reporting, -control system.
- Integrate and standardise very significant amounts of diverse vehicle alarm data, sourced from multiple external data sources, using web-hooks to ensure uniform data and consistent system behaviour.
- Utilise Cron jobs, Web-hooks and Supabase real-time events, to automate user assignment of alarms and update alarm statuses.
- Design and maintain an intuitive UI/UX with animated dashboards, live updates, and modular backend APIs.
- Deploy and maintain backend services and a Supabase database on a Linux server hosted in Azure.

Key achievements

- Successfully integrated multiple external vehicle alarm data sources via webhooks, normalizing data structures for consistent system processing.
- Improved event handling efficiency through webhook-driven automation and Supabase's real-time capabilities.
- Built a scalable and modular backend service structure, reducing system latency and maintenance complexity.
- Created a clean and interactive user interface that enhanced operator accuracy and engagement.
- Strengthened teamwork and collaboration skills by working closely with a colleague to solve integration challenges and align development workflows.

Employment history (continued)

Varsity College   **2023 to 2024**
(Varsity College – Pretoria Campus, RSA)

Position held: Student Tutor (Information Technology Department)

Main responsibilities

- Provide academic support to First-Year BSc. Computer and Information Science Degree students.
- Guide First-Year students in application design, full-stack systems logic, project structuring and programming.
- Conduct one-on-one sessions with First-Year students, to improve academic performance of students who are struggling with certain modules, or technical understanding of subject matters..

Key achievements

- Helped students to improve practical programming skills and understanding of subject matters.

Details of projects

Katanga Contracting Services - Resource Management System   **2025 to Present**

- Designed and implemented an enterprise-level asset management and operations platform using ASP.NET MVC, SQL Server, and EF Core.
- Developed multi-role access control, Tailwind-styled admin dashboards, and comprehensive data validation logic.
- Collaborated directly with stakeholders to translate complex business workflows into automated digital processes, improving asset tracking efficiency and data accuracy.
- Integrated modular controllers and seeding logic for roles, sites and transactions, ensuring scalability and maintainability.

Afrisist - Alarm Monitoring System   **2025 Limited Duration Project**

- Built a self-hosted, real-time web application, using React, Node.js, and Supabase for managing vehicle alarms for large fleets.
- Implemented WebSocket-based live updates, context-based alarm assignment and automated notification logic.
- Developed an intuitive operator dashboard with Tailwind + DaisyUI, supporting animated tabs, filtering and real-time event streams.
- Enhanced reliability and speed, by introducing webhook-driven automation and optimised API routes.

Eridge Branch of RDA Non-Profit Charity and upliftment organisation (United Kingdom)   *2024*

- Developed a full-stack web solution for a UK-based charity using React (Vite), Node.js (Express), and PostgreSQL (Supabase).
- Delivered CMS functionality for managing volunteers, gallery content, and programmes.
- Designed accessible, responsive UI components with DaisyUI and Tailwind, matching the organization's branding and improving visitor engagement.
- Implemented a custom admin dashboard, contact form management, and dynamic program/event listings for better content control.
- Eridge RDA Website: https://www.eridgerda.org.uk/

References

1. Mr. Ryan Rhodes

Responsible Manager at Afrisist.

Mobile Number: (+27) 84 266 5017
Work E-mail: ryan@afrisist.com

2. Mr. Josh Foster

CEO and Shareholder of Katanga Contracting Services (DRC), African Mining Solutions Ltd (Mauritius) and Go Limited (UK).

Mobile Number: (+44) 755 776 7243
Mobile Number: (+243) 82 404 9960
Work E-mail: joshf@africanminings.com

3. Mrs. Susan Snyman

Previous Head of Information Technology Department, Varsity College, Pretoria Campus (RSA).

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Work E-mail: susan.snyman@global.ntt

4. Mr. Herman Fourie

Director, CFO, Shareholder of Katanga Contracting Services (DRC), African Mining Solutions Ltd (Mauritius) and Rimitso Mining Services (Pty) Ltd (RSA).

Tel. Number: (+27) 79 500 2850
Work E-mail: hermanf@africanminings.com

5. Mrs. Debora Jackson

Chairwomen, Eridge Branch of RDA Non-Profit Charity and upliftment organisation (United Kingdom).

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