# Ntandoyenkosi Kagiso Gumede

## BUSINESS ANALYST | SYSTEMS ANALYST | INFORMATICS GRADUATE |JAVA DEVELOPER

Portfolio  https://kagisogumede.github.io/kagisoweb/

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## SUMMARY

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Results-driven Business and Systems Analyst and Informatics graduate with 1+ year of practical experience in enterprise IT environments. Proven track record of delivering 5+ enterprise systems from requirements gathering through UAT. Currently advancing full-stack development skills at First National Bank while maintaining strong expertise in requirements analysis, UML modelling, and stakeholder management. Skilled in translating complex business needs into actionable technical specifications, with hands-on experience in Agile environments.

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## PROFESSIONAL EXPERIENCE

**Software Development Learner | First National Bank (FNB)**

*September 2024 – Present | Johannesburg, South Africa*

- Leading Business Analyst and Systems Analyst functions for 2 banking system modules, managing requirements from elicitation through to production deployment
- Developing front-end components using JSP and OCEP principles for transaction processing interfaces serving 500+ daily users
- Contributing to back-end development using Spring Boot, creating 10+ RESTful API endpoints for core banking operations
- Writing, debugging, and testing code with 95%+ test coverage, resolving 30+ defects identified during code reviews
- Actively participating in Agile ceremonies including sprint planning, daily stand-ups, and retrospectives across 8+ sprints

**Business/Systems Analyst Intern | Rain Cloud Company**

*January 2024 – August 2024 (8 months) | Johannesburg, South Africa*

- Elicited and documented 150+ functional and non-functional requirements across 3 enterprise systems (VIIMS, GIIMS, LMS) through stakeholder workshops and interviews with 20+ users
- Translated business needs into detailed system specifications, producing 5 comprehensive requirements documents and 3 functional design specifications totaling 200+ pages
- Designed 25+ UI/UX mockup screens and wireframes using Figma, achieving 90% stakeholder approval rate on first review
- Created 40+ UML diagrams including Use Case, Activity, Sequence, and ERD diagrams for system and database design using Visual Paradigm
- Documented and tested 30+ RESTful API endpoints using Postman, identifying and logging 45+ defects during system and UAT testing
- Designed and normalized 8 relational database schemas in PostgreSQL with 60+ tables, ensuring data integrity and optimal query performance
- Facilitated 15+ requirement gathering sessions and project planning meetings, managing task breakdown and risk identification for 3 concurrent projects
- Collaborated with cross-functional teams of 10+ developers, testers, and business stakeholders using Jira, GitHub, and Microsoft 365

# TECHNICAL SKILLS

### Business & System Analyst

- Requirements Engineering: Gathering, elicitation, analysis, validation, and traceability management
- Business Process Modeling: AS-IS & TO-BE process mapping, workflow optimization, and gap analysis
- UML Modeling: Use Case, Activity, Sequence, Class, and ERD diagrams
- Data Modeling: Database schema design, normalization (1NF-3NF), data integrity rules, and data dictionaries
- Documentation: Software Requirements Specifications (SRS), Functional Design Specifications (FDS), technical specifications
- API Analysis: REST API documentation, endpoint testing, request/response validation
- Testing Support: System testing, integration testing, UAT coordination, defect management
- Stakeholder Management: Requirements workshops, demos, feedback sessions, conflict resolution

### UI / UX Designer

- User research, requirement understanding, and usability-focused design
- Wireframing, low- and high-fidelity mockups, and interactive prototyping
- User flows, information architecture, and screen design
- Design systems, style guides, and UI consistency
- Usability testing, feedback analysis, and design iteration
- Tools: Figma

### Technical Development

- Programming Languages: Java, JavaScript, HTML, CSS, SQL
- Backend: Spring Boot, RESTful services, JSP, concepts
- Frontend: React.js, Next.js, responsive web design
- Databases: PostgreSQL, SQL Server, database design and optimization
- Version Control: Git, GitHub for collaboration and code management

### Tools & Technologies

- BA/SA Tools: Visual Paradigm, Microsoft Visio, Lucidchart, Draw.io
- UI/UX Design: Figma (wireframing, prototyping, design systems)
- API Testing: Postman, Swagger, REST client tools
- Project Management: Jira, Trello, Microsoft Project, Confluence
- Microsoft Suite: Excel (PivotTables, formulas), Word, PowerPoint, Outlook, Power BI, Power Platform
- Methodologies: Agile (Scrum), Waterfall, SDLC

# EDUCATION

### Diploma in Informatics
Tshwane University of Technology | 2022 – 2024

Relevant Coursework: Systems Analysis & Design, Database Management, Software Engineering, Project Management, Business Analysis, Software Testing

### National Senior Certificate (Matric)
Nodineka High School | 2021
Stream: Science and Mathematics

## KEY PROJECTS & DELIVERABLES

### Vehicle Impound Information Management System (VIIMS)

- Led business and system analysis for impound vehicle tracking system serving 50+ law enforcement officers
- Designed workflow automation reducing manual processing time by 60% through digital record management

### Goods Impound Information Management System (GIIMS)

- Conducted comprehensive system analysis and testing for impounded goods inventory management
- Implemented data validation rules ensuring 99%+ accuracy in inventory records

### Portfolio Website

- Designed modern and user-friendly UI/UX layout with responsive design for all devices.
- Implemented interactive features using JavaScript and optimized website performance.
- Integrated AI chatbot functionality for automated visitor engagement

### Bank Transaction System Module

- Developed transaction status tracking module handling 1,000+ daily transactions
- Conducted system testing identifying and resolving 20+ critical defects before production release
- Conducted reverse engineering and created documentation for all bank system modules

## PROFESSIONAL INTERESTS

- Project Management: PMP (Project Management Professional)
- IT Service Management: ITIL (Information Technology Infrastructure Library)
- Enterprise Architecture: TOGAF (The Open Group Architecture Framework)
- Governance & Compliance: COBIT (Control Objectives for Information and Related Technologies)

## REFERANCES

Available on request.