MAVHUNGU LEBOGANG SHEARAFT
Back-End Developer | Software Engineer | BSc IT Graduate
Contact

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SUMMARY

Bachelor of Science in Information Technology graduate with a strong passion for back-end development, server-side programming, and database management. Proficient in building scalable applications using languages such as Java, Python, and C#, with hands-on experience in designing RESTful APIs, managing SQL databases, and integrating server-side logic. Actively engaged in technical projects and hackathons to improve problem-solving skills, system architecture understanding, and cloud deployment practices. Eager to contribute secure, efficient, and innovative back-end solutions to dynamic teams while continuously adapting to the evolving IT landscape. Committed to continuous learning, code quality, and delivering impactful technology solutions

EDUCATION

Bachelor of sciences in Information Technology   Jan 2022 - present

North-West university
- Specialization in computer science, Software Development, Systems Analysis and Design, Network Management, Database Management, Web Development, Data Analytics, Information Security, Decision Support Systems, Artificial Intelligence, IT Development, operating Systems

Front -End Engineering , Back-End Engineering ,full-stack Engineering career path   Feb 2025 - present

codecademy company
- Specialization in software Engineering (Front-End, Back-End, Full-Stack)

TECHNICAL SKILLS

Back-End software Engineering, Programming & Software Development

Server-Side Programming
- Proficient in C#, Python, Java, JavaScript, and C++ for building scalable and efficient server-side applications.
- Strong grasp of object-oriented programming (OOP), data structures, and algorithm design.
- Skilled in debugging, code optimization, and writing clean, maintainable code following industry best practices.

Database Design & Management
- Experienced with MySQL, PostgreSQL, and SQL, with a focus on data modeling, query optimization, and data integrity.
- Applied ER modeling, normalization, and indexing techniques to structure and manage relational databases effectively.

RESTful API Development & Integration
- Skilled in designing, developing, and integrating RESTful APIs to enable secure and scalable communication between systems.
- Proficient in using Postman and related tools for API testing, development, and debugging.

Version Control & DevOps Practices
- Proficient in using Git and GitHub for version control, branching strategies, and collaborative software development.
- Familiar with DevOps practices, including CI/CD pipelines, automation, and secure development workflows.
- Experienced with Visual Studio for back-end development, debugging, and testing.

IT and Computer Science Expertise
- Strong foundation in information security, software engineering, system analysis and design, and web security fundamentals.
- Experienced in performance tuning, code refactoring, and building secure, efficient back-end architectures.

SOFT SKILLS
- Communication – Clear expression of ideas and effective team collaboration.
- Problem-Solving – Strong analytical thinking and debugging ability.
- Adaptability – Quick to learn new tools and adjust to changing tech trends.
- Teamwork – Cooperative and supportive in group projects and agile environments.
- Time Management – Able to prioritize tasks and meet tight deadlines efficiently.

KEY INTEREST IN DEVELOPMENT
- System architecture and RESTful API development, Building scalable and data-driven web applications, Back-end optimization and clean, maintainable code practices, Exploring cloud deployment and containerization (Docker), Continuous improvement in performance, security, and infrastructure design

SOFTWARE DEVELOPMENT EXPERIENCE

Back-End Developer (Coursework Project)   Feb 2024 – July 2025

Smart Budgeting API – Python, Django REST Framework, PostgreSQL, Celery, Docker
- Developed a RESTful API for managing user wallets, budgets, categorized transactions, and forecasting logic. Enabled receipt uploads and automated monthly tasks using Celery. Deployed with Docker and documented endpoints with Swagger.

Salon Booking System API – Java, Spring Boot, Spring Security, MySQL, JWT, Docker
- Built a secure, role-based API with endpoints for appointments, services, staff availability, ratings, and payments. Implemented JWT authentication, deployed via Docker, and documented the system using Swagger.

Job Application Tracker API – Node.js, Express.js, MongoDB, JWT
- Created backend functionality for job management, including CRUD operations, file uploads (resumes), tags, reminders, and analytics. Secured routes with JWT, tested with Postman, and deployed to Vercel.

Clinical Decision Support System – C#, ASP.NET Core, SQL Server
- Engineered backend APIs with strict data validation, secure authentication, and modular architecture. Integrated business logic layers to support healthcare decision-making and patient record interactions.

API & Server-Side Skills Applied:
- Designed RESTful APIs using Node.js, Express.js, Spring Boot, and Django REST Framework
- Implemented authentication and authorization with JWT, Spring Security, and ASP.NET Identity
- Used MongoDB, PostgreSQL, and MySQL for relational and non-relational data persistence
- Handled file uploads, input validation, error handling, and API testing using Postman
- Documented APIs with Swagger, versioned code with Git, and deployed using Docker, Vercel, and Railway
- Followed SOLID principles, MVC architecture, and best practices for clean and maintainable backend codebases.
- Wrote unit tests for routes, models, and services using tools like Jest, JUnit, and Postman test scripts.
- Practiced Agile methodologies, contributing to sprint planning, issue resolution, and API integration workflows.

CERTIFICATIONS

Front-End Engineer Professional Certificate
- Codecademy |Career Path: Software Development" |Completion Date: 24 May 2025
- Topics: HTML5, CSS3, JavaScript, Git, GitHub, Responsive Web Design, React, Redux, Build Tools, Data Structures, and Algorithms Certificate ID: [C0DE8BC7-7]

Full-Stack Development Certificate of Completion
- FNB | Course :Software development| Completion Date: 12 July 2025
- Certificate ID: [A0TYAA072025]
- Topic: App Strategies, GitHub and Collaboration, Build an App with HTML (The SDLC), Principles of UX Design, Basic Layouts, Transitions, Design Thinking, APIs, Data Input and Processing, User-Centric App Development, Data Management and Analysis, Business Developpment Intro, Backend Development (Build an API), All in Development Business Funding, Marketing Your App Business

ADDITIONALS
LANGUAGES: English, Tshivenda, Xitsonga, Sepedi,IsiZulu, Xhosa
REFERENCES:
- Tshadama / Teacher:Mr.Magondo, 0827455684, Magondoitani@gmail.com
- NWU / Lecturer:Mr. Sejaphala L.C, 0833011353, Chris.sijaphala@nwu.ac.za