

MAVHUNGU LEBOGANG SHEARAFT

Full-Stack Developer | Software Engineer | BSc IT Student

Contact

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SUMMARY

Bachelor of Science in Information Technology Final year student with a strong passion for full-stack software development and engineering. Skilled in building scalable web applications using HTML5, CSS3, JavaScript, React, Node.js, Python, C#, and Java, with practical experience in both front-end and back-end development. Completed 10+ personal and team-based projects focused on real-world problems, including dynamic booking systems, RESTful API integration, and responsive user interfaces. Experienced in Java and Python for backend development, with practical exposure to frameworks like Spring Boot and Flask. Actively participating in hackathons, coding challenges, and online courses to sharpen problem-solving, database management, and deployment skills. Committed to continuous learning, code quality, and contributing impactful solutions in agile development

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

Programming Languages

- HTML5, CSS3, JavaScript (ES6+), Python, Java (including J2EE), C#, C++, SQL

Frameworks and Libraries

- Front-End: React.js, Bootstrap, jQuery
- Back-End: Node.js, Express.js
- Familiarity with Flask and Django through coursework and online training

Databases

- MySQL, PostgreSQL, MongoDB
- Data Modeling Principles, SQL Queries, Database Normalization, Relational Storage Systems

API Development and Integration

- RESTful APIs, JSON, API Integration
- Tools: Postman, Swagger

Software Development Concepts

- Object-Oriented Programming (OOP)
- MVC Architecture, DOM Manipulation
- Debugging, Code Refactoring, Secure Coding Practices

Version Control and Collaboration

- Git, GitHub
- Experience with branching, merging, pull requests, and issue tracking

DevOps and Deployment

- CI/CD Fundamentals, GitHub Pages, Netlify
- Performance Optimization, Deployment Workflows
- CI/CD pipelines (GitHub Actions), Docker (basic knowledge), Deployment via Netlify/GitHub Pages

UI/UX and Design Tools

- Responsive Web Design, UI/UX Principles
- Tools: Figma, Chrome DevTools, Visual Studio
- Platforms & Environments: Windows, UNIX/Linux

Project Management and Methodologies

- Agile, Scrum, Kanban
- Familiar with DevOps workflows and team collaboration practices
- Sprint planning, daily stand-ups, and retrospectives in agile teams.

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

- Full-stack application development and system integration, Scalable and data-driven web solutions, RESTful API architecture and cloud-based services, Agile software development and team collaboration, UI/UX design principles and user-centered design, Exploring DevOps practices and CI/CD pipelines, Continuous learning through online certifications and open-source contributions, Web performance optimization and secure coding standards, Containerization and cloud deployment (Docker, Kubernetes – future learning goal), Spring Boot and Flask backend development, Full-stack application design with Java and Python

SOFTWARE DEVELOPMENT EXPERIENCE

Full Stack Developer (Project-Based & Coursework Experience)

Jan 2024 – july 2025

Remote / Vereeniging, South Africa

- Smart Budgeting API – Python, Django REST Framework, PostgreSQL, Docker, Celery
- Developed a budgeting API with wallet management, categorized transactions, receipt uploads, monthly budgets, and financial forecasting. Automated reminders using Celery and deployed the system using Docker and Railway. Documented endpoints with Swagger.
- Salon Booking System – Java, Spring Boot, Spring Security, MySQL, JWT, Docker
- Built a REST API for salon services with role-based access (Admin, Staff, Client), appointment scheduling, availability tracking, ratings/reviews, and secure authentication. Deployed using Docker; documented all endpoints using Swagger.
- Job Application Tracker API – Node.js, Express.js, MongoDB, JWT, Swagger
- Designed and implemented a job tracking system supporting CRUD operations, resume uploads, category/tag filters, reminders, analytics (conversion rate, top companies), and admin access. Deployed to Vercel with full API documentation.
- Clinical Decision Support System – C#, ASP.NET Core, SQL Server
- Engineered backend APIs for medical decision-making tools, including secure authentication, data validation, modular logic layers, and reliable RESTful endpoints for clinical workflows.
- Lerbow's Hair & Beauty Booking App – React.js, JavaScript, CSS3
- Developed a front-end scheduling app with dynamic service logic, multi-step form validation, simulated authentication (localStorage/sessionStorage), and responsive design.
- Appointment Planner App – React.js, HTML5, CSS3
- Created a calendar-based planner using reusable React components and modular architecture. Integrated persistent local storage for saving user data and appointment history.
- Mini-Projects – JavaScript, DOM APIs
- Developed small-scale applications (To-Do App, Rock-Paper-Scissors Game, PIN Validator) to demonstrate real-time UI feedback, conditional logic, and DOM manipulation.
- Followed Agile methodologies including sprint planning, daily standups, and retrospectives to manage tasks and ensure delivery of milestones.
- Applied SOLID principles, MVC architecture, and clean code practices to ensure code scalability, maintainability, and readability.
- Utilized Git and GitHub for version control, pull request workflows, and collaborative development.
- Ensured cross-browser compatibility, responsive web design, and adherence to accessibility standards across all front-end projects.
- Practiced unit testing using tools like Jest to validate component logic and improve code reliability

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: [CODE8BC7-7]

Full-Stack Development Certificate of Completion

- FNB | Course :Software development| Completion Date: 12 July 2025
- Certificate ID: [AOTYAA072025]
- 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 Development 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