LEFA LAZY MALATJI

Software Developer | NLP Researcher | Lecturer

Johannesburg, South Africa | +27 69 729 4309 | lazylefa@gmail.com

Portfolio: lefamalatji.co.za | GitHub: LEFA-2329

LinkedIn: linkedin.com/in/lefa-malatji-574984276

Professional profile

Computer Science honours graduate and MSc candidate with one year of software development internship experience, three years of academic tutoring, and a current lecturer role at Rosebank College. Develops web applications and PostgreSQL databases, with research in low-resource Sepedi–English language generation. Brings a Computer Science and Statistics foundation to software engineering, AI research and data analysis.

Professional experience

Lecturer

Rosebank College | Current role

- Teach programming logic and design, software development and database concepts through lectures and practical coding activities.
- Guide students in C#, object-oriented programming, HTML/CSS, ASP.NET MVC and SQL.
- Assess projects and assignments against rubrics and provide feedback to support student progress.

Software Developer Intern

Simplifon | One year

- Developed and maintained web-based applications.
- Developed and managed PostgreSQL databases supporting web applications.

Academic Tutor

University of Limpopo | Three years

- Tutored honours students in Advanced Databases and first-year students in Web Development and Programming Logic and Design.
- Guided students through problem-solving, programming concepts and practical coding exercises.

Selected projects

Project	Contribution and technologies
Store Hub	Built a PHP/PostgreSQL multi-role e-commerce platform with AI-driven personalisation, intelligent product search, business intelligence reports and a session-aware support chatbot. Source code
Pre-School Management System	Developed an admin dashboard with key statistics, secure login and management of learners, teachers, books and borrowing records. Source code
Airport Sky Base System	Developed and tested an airport management application with a user-friendly interface for accessing and managing airport information. Source code
Burzarsnet	Collaborated in a team of four to develop a South African bursary and internship platform with admin management. burzarsnet.com

Education

MSc in Computer Science

University of Limpopo | 2026–present

- Research: Investigation of data-scarcity effects for the development of a Sepedi–English text generation model, comparing FNet, LSTM and mBERT.

BSc Honours in Computer Science

University of Limpopo | 2025

- Key subjects: Advanced Operating Systems, Computer Security, Advanced Databases, Speech Technology and Research Project.

BSc in Mathematical Sciences

University of Limpopo | 2021–2024

Majors: Computer Science and Statistics.

Technical skills

Development: C#, ASP.NET Core Web API, PHP, JavaScript, HTML5, CSS3 and Bootstrap 5.

Databases: PostgreSQL, Microsoft SQL Server and MySQL; SQL, data modelling, relational schema design and normalisation.

AI and research: Python, natural language processing, text preprocessing, FNet, LSTM, mBERT and model evaluation using BLEU and ROUGE.

Tools and practices: Git, GitHub, Docker and Agile development.

Research and publication

Malatji, L. L. and Modipa, T. I. Investigating Data Scarcity and Model Adaptation for Sepedi-English Code-Switching Text-Generation. Published research on generative AI for code-switching using the FNet architecture.

Additional information

Languages: Sepedi and English. References available on request.