THABO PRINCE MOTAU

☎ 063 002 8070 | ✉ thaboprince252@gmail.com | 🔗 linkedin.com/in/thaboprince25 | 💻 github.com/thabocoolT |

🌐 https://thabo-motau-portfolio.netlify.app/

PROFESSIONAL SUMMARY

I'm a final-year BSc Information Technology student at North-West University with a strong interest in software development, systems analysis and design, artificial intelligence and machine learning, and software testing. Throughout my academic journey, I have enjoyed building practical applications and learning how different technologies and systems work together to solve real world problems. I have applied what have learned through my coursework to personal projects, where I have gained hands on experience developing desktop, web, and enterprise style applications while strengthening my analytical thinking, problem solving, and software development skills. I enjoy exploring new technologies through personal projects and continuously looking for opportunities to expand my technical knowledge while growing as an IT professional.

EDUCATION

North-West University — Vanderbijlpark, Gauteng
BSc in Information Technology — *Expected Graduation: May 2027*

- **Relevant Coursework:** Data Structures & Algorithms, IT Development, Structured Programming, Object-Oriented Programming, Apps and Advanced User Interface Programming, Information Security, System Analysis & Design, Decision Support Systems, Data Analytics, Databases, Artificial Intelligence, Statistics

Khanya-Lesedi Secondary School — Heidelberg, Gauteng
National Senior Certificate — *2018-2021*

SKILLS

Programming Languages:	C#, C++, Python, Java, JavaScript, SQL
Frameworks & Technologies:	ASP.NET Core, .NET Framework, Entity Framework Core, OpenCV (Python), NumPy (Python), Bootstrap, Haar Cascade Classifier (Computer Vision), Swagger/OpenAPI, JWT Authentication
Development Tools:	Visual Studio, VS Code, Git, GitHub, SQL Server Management Studio, Oracle SQL Developer, IntelliJ IDEA, PyCharm, Figma, React, Docker
Software Development:	Object-Oriented Programming (OOP), Systems Analysis & Design, Database Development, Software Testing, Debugging, Version Control (Git), Familiar with Agile Development, REST API Design, Responsive Web Design, Technical Documentation, Database Design, Entity Relationship Diagrams (ERDs)
Professional Skills:	Analytical Thinking, Problem Solving, Critical Thinking, Software Documentation, Requirements Analysis, Team Collaboration, Adaptability, Time Management, Communication, Attention to Detail, Continuous Learning

EXPERIENCE & LEADERSHIP

Student Assistant — C++ (Structured Programming) — *August 2025 – Present*
North-West University, Vaal

- Tutor and mentor more than 200 first-year Information Technology students in Structured Programming using C++.
- Provide academic support by explaining programming concepts, debugging code, and assisting students during practical laboratory sessions
- Assisted students in debugging C++ programs, troubleshooting programming issues, and explaining software development best practices.
- Gained students' analytical thinking and problem-solving abilities by guiding them through programming challenges.

Industry-Based Learning — Systems Analysis & Design (Academic Project) — *July – August 2024*

Heidelberg Hospital, Heidelberg

- Provided desktop and end-user support across HR, Finance, and Admissions while installing and configuring Microsoft 365, Citrix, and RX-Solutions.
- Assisted with software configuration, troubleshooting, and SQL Server-based system support, improving operational stability.
- Worked alongside end users to understand business requirements and resolve technical issues across multiple departments.
- Produced technical documentation and gained exposure to enterprise Health Information Systems used for patient registration and billing.

PROJECTS

Varsity Trade — Full-Stack Software Development Project *June 2026 – Current*

ASP.NET Core, .NET, Entity Framework Core, SQL Server, React, REST APIs, Figma

- Designing and creating a production-ready student marketplace platform using C#, ASP.NET Core Web API, Entity Framework Core, SQL Server, and ASP.NET Identity.
- Designed a SQL Server database with more than 20 related entities to support features such as messaging, transactions, reviews, and notifications.
- Built RESTful API endpoints for the platform using ASP.NET Core and Entity Framework Core.
- This project helped me understand how to organise backend application using layered architecture and create APIs that are easier to maintain.
- Following software engineering best practices, including Git version control, database normalization, API documentation, and structured project planning.

SafeRide Transport Services Database System *March 2026 – May 2026*

Oracle SQL Developer, SQL, Database Design Concepts, Git

- Analysed business requirements and designed a relational Oracle SQL database for vehicle allocation, trip scheduling, and maintenance management.
- Designed normalized database structures, ERDs, and supporting documentation using Oracle SQL Developer.
- Applied systems analysis and database design principles to develop a scalable solution aligned with business requirements.

Personal Portfolio Website *April – May 2026*

HTML/CSS, JavaScript, Chrome DevTools, GitHub, VS Code

- Designed and built a fully responsive personal portfolio website using HTML, CSS, and JavaScript.
- Applied responsive design and modern UI/UX principles to ensure compatibility across desktop, tablet, and mobile devices.
- Used Git and GitHub throughout development to manage changes and keep track of project progress.

SecureVision — AI-Based Face Recognition Security System *November 2025 – Present*

Python, OpenCV, NumPy, VS Code, Python Virtual Environment, Haar Cascade Classifier

- Built a real-time AI-based facial recognition application using Python and OpenCV with live webcam face detection.
- Implemented modular project architecture using reusable Python modules and virtual environments to improve maintainability.
- Used Git and GitHub for version control while planning authentication and automatic workstation lock functionality.
- Strengthened skills in debugging, computer vision, image processing, and writing clean, maintainable code.

REFERENCES

Available upon request