

Alexander Agu

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EDUCATION

WeThinkCode

Software Engineering - Diploma

Gauteng, Rosebank

Sep 2024 – Dec 2025

- Learned about brownfield development, adapting and extending existing systems.
- Applied Agile methodologies, focusing on teamwork, collaboration, and iterative delivery.
- Practiced version control with Git/GitLab in team-based projects.
- Gained programming experience with Python and Object-Oriented Programming (OOP) in Java.
- Studied web development principles and practices.

EXPERIENCE

Technical Mentor

WeThinkCode

Sep 2025 – Dec 2025

Gauteng, Rosebank

- Guided first-year students through core programming concepts and project-based learning, ensuring they built a strong technical foundation.
- Provided one-on-one and group mentorship, offering feedback and support on coding practices, debugging, and problem-solving.
- Facilitated collaborative learning by encouraging teamwork, code reviews, and knowledge sharing among students.
- Helped students adopt industry best practices in software development, including version control, clean code principles, and effective use of development tools.

PROJECTS

Fix It Now – Property Maintenance Management API | *C#, ASP.NET, Docker*

Sep 2025 – Present

- * Developing a RESTful API enabling tenants to report maintenance issues with text and photos.
- * Implementing a status tracking workflow (Pending → In Progress → Completed).
- * Designing multi-admin support with role-based permissions for property management.
- * Planning feedback and reporting features to improve transparency and tenant satisfaction.

Inventory Management System | *React, ASP.NET, PostgreSQL, Docker*

June 2025 – Aug 2025

- * Built a full-stack inventory system using ASP.NET (backend) and React (frontend).
- * Implemented inventory valuation with weighted average cost and closing stock calculations.
- * Containerized the backend using Docker for consistent deployment.
- * Enabled inventory tracking and secure CRUD operations.

QuizForge AWS | *React, Gemini API*

April 2025 – May 2025

- * Developed a web-based quiz platform to teach cloud computing concepts.
- * Integrated Gemini API to auto-generate dynamic and relevant quiz questions.
- * Focused on beginner/intermediate learners with engaging UI and gamified elements.
- * Built with real-time feedback and smooth user experience in mind.

TECHNICAL SKILLS

Languages: Java, Python, C#, SQL (Postgres), JavaScript, TypeScript, HTML/CSS

Frameworks: React, Tailwind CSS, Node.js, ASP.NET, Spring Boot

Developer Tools: Git, Docker, VS Code, Visual Studio, IntelliJ