

# Alexander Agu

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## EDUCATION

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### 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

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### 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

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### 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

- \* Developed a full-stack Inventory Management System that enables businesses to record, track, and manage products.
- \* 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 the system to provide clear results and feedback after each completed quiz for easy self-assessment.

## TECHNICAL SKILLS

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

**Frameworks:** React, Tailwind CSS, Node.js, .NET

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