

# Silvio Ivania

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LinkedIn: [linkedin.com/in/silvio-ivania](https://www.linkedin.com/in/silvio-ivania) | Portfolio: [silvioivania.com](https://silvioivania.com)

GitHub: [github.com/SilvioIvania](https://github.com/SilvioIvania)

Location: Windhoek, Namibia

## 1. Professional Summary

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Software Engineering student specialising in full-stack web platforms and native Android development. Experienced in leading Agile teams to build distributed microservices and offline-first applications. Actively seeking a Work Integrated Learning (WIL) internship for 2026 to apply advanced software architecture principles and deliver secure, optimised engineering solutions.

## 2. Education

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**Bachelor of Computer Science (Software Development)** 2024 – 2027 (Expected)

*Namibia University of Science and Technology (NUST)*

### Key modules:

- Project Management, Sustainability & Development, Work Integrated Learning, Software Processes
- Object-Oriented Programming (OOP), Data Structures & Algorithms, Database Programming, Mobile Application Programming
- Distributed Systems, Security Essentials, Web Application Development, Artificial Intelligence, Data Analytics

## 3. Practical Experience / Projects

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**Lead Architect & Project Manager** May 2026

*Valentine's Garage (Android App) | Kotlin, MVVM, Firebase, Dagger Hilt*

- Architected a multi-module MVVM Android application featuring offline-first data persistence via Firebase Realtime Database.
- Orchestrated dependency injection with Dagger Hilt across 5 feature modules, reducing boilerplate code by ~40% and improving testing efficiency.
- Coordinated a 4-person Agile team through 6 sprint cycles, delivering the complete project 1 week ahead of the final deadline.

**Full-Stack Developer** Apr 2026

*Digital Internship Management System | PHP, SQL, JavaScript, HTML/CSS*

- Engineered a web application serving 3 distinct user roles (students, supervisors, coordinators), digitising the entire internship lifecycle and eliminating manual paperwork.
- Designed a secure RESTful PHP API utilising token-based authentication and prepared statements, successfully mitigating SQL injection vulnerabilities.
- Implemented asynchronous data handling via the Fetch API, reducing full page reloads to zero and significantly improving user experience.

## Backend Developer

Oct 2025

*Smart Ticketing System (Microservices) | Ballerina, HTTP, Message Queues*

- Developed an event-driven microservices architecture comprising 4 loosely coupled services for public transport ticketing using Ballerina.
- Engineered inter-service communication via HTTP and message queues, replacing a paper-based manual workflow with a real-time digital system.

## AI Engineer

Apr 2026

*AI Geeks (Algorithm Implementations) | Python, Jupyter Notebooks*

- Implemented 5 AI algorithms in Python: A\* Search, CSP Backtracking, Minimax with Alpha-Beta pruning, Q-Learning, and Markov Decision Processes.
- Documented time-complexity analysis and visualised search trees across Jupyter notebooks to demonstrate algorithmic efficiency.

## 4. Skills

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### Technical Skills

- **Languages:** Java, Python, Kotlin, JavaScript, TypeScript, PHP, SQL, Ballerina, HTML/CSS
- **Frameworks & Tools:** React, Next.js, Node.js, Express.js, Jetpack Compose, Firebase, Supabase, Dagger Hilt, Docker, Git
- **Methodologies:** MVVM, REST APIs, Microservices, CI/CD, Agile / Scrum, Test-Driven Development, AI Engineering

### Soft Skills

- Analytical Problem-Solving & Critical Thinking
- Cross-functional Team Leadership & Collaboration
- Technical Documentation & Communication
- Agile Project Management & Sprint Planning

## 5. References

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*References available upon request.*