

KotlinConf 2026 Contest Essay

My Name is Tamunosaki Glory Princewill and I'm 19 years old. I'm a Computer Science student at Baze University, Abuja, Nigeria, currently completing my third year of study and transitioning into my fourth year after finishing my industrial training(internship). My Academic journey has given me a strong foundation in programming and problem-solving, while my internship experience allowed me to apply these skills in technical environments. During this period, I gained exposure to development workflows and practical debugging, which strengthened my confidence.

My coding experience spans multiple technologies, including Kotlin, Java, Python and C#, with a growing focus on modern UI development and cross-platform solutions. I have worked on REST APIs, desktop applications and UI frameworks such as Jetpack Compose. I have a strong interest in cybersecurity—particularly password security and safe authentication practices—which influenced the core idea behind my project.

Ainer Secure is a simple Kotlin Multiplatform password analyzer designed to provide real-time feedback on password strength while maintaining a clean, elegant, and visually engaging interface. The application analyzes passwords instantly, highlights weaknesses, and suggests stronger alternatives when necessary. I intentionally combined a feminine aesthetic with a subtle hacker-lab feel to make security tools feel approachable rather than intimidating.

The project was built using Kotlin Multiplatform, allowing shared domain logic across platforms, with Jetpack Compose used to implement modern, reactive UIs on Android and desktop. Technologies such as Material3, Coroutines, and Compose animations were used to enhance responsiveness and user experience. Features like real-time validation, dynamic password suggestions, clipboard support, and a custom splash screen demonstrate both technical depth and attention to design detail.

Ainer Secure reflects my ability to merge secure coding principles with thoughtful UI design. It represents my growth as a student, my interest in cybersecurity, and my readiness to build scalable, user-focused applications using Kotlin technologies.