Miracle Apata - Desktop Software Engineer

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Summary

Experienced desktop software engineer specializing in cross-platform applications for **Windows** and **macOS** using **Python (PySide6)** and **SwiftUI**. Adept at building multilingual educational tools used by universities, academies, and institutions for standardized testing. Expert in packaging with PyInstaller and Inno Setup and delivering native desktop experiences.

Work Experience

DINATEN — Santa Cruz de Tenerife, Spain

https://dinaten.com

Aug 2023 – Present

- Developed and maintained piXeval and **pixEBAP**, two educational desktop applications for managing and correcting multiple-choice exams.
- Built apps using **PySide6** (Qt for Python), compiled with **PyInstaller**, and packaged installers with **Inno Setup**.
- Created and maintained a **macOS-native version of piXeval** using **SwiftUI**, designed specifically for Apple users while ensuring feature parity with the Windows build.
- Ensured full cross-platform support across **Windows and macOS** with consistent UX.
- Supported multiple languages in the app interface: **Catalan**, **Spanish**, **English**, **Euskera**, and **French**.
- Integrated key features:
  - Bulk import from Word, Excel, and Moodle
  - Generation of up to 9 randomized models of the same exam
  - Scanning and automatic grading of answer sheets (up to 30 exams/minute)
  - Delivery of student results via email
  - Advanced statistics and competency evaluation

Skills

- **Languages:** Python, Swift (SwiftUI), JavaScript
- **Frameworks:** PySide6, SwiftUI
- **Tools:** PyInstaller, Inno Setup, Git, macOS development tools
- **Platforms:** Windows, macOS
- **App Languages:** Spanish, English, Catalan, Euskera, French

Projects

- **piXeval**

  - Download
  - Intelligent exam correction and evaluation tool for teachers and institutions.

- **pixEBAP**

    - Internal desktop application used for managing exam forms and student data.

Education

B.Eng. in Electrical & Electronics Engineering
Federal University of Technology, Akure — Graduated 2024

Languages

- English (Fluent)
- Spanish (Conversational)