Amir Limame

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EDUCATION

Saint Leo University | Saint Leo, FL **May 2027**

B.S. in Computer Science, GPA: 3.6/4.0

- **Computer Science Core:** Algorithms & Data Structures, Operating Systems, Database Concepts & Programming, Theoretical Foundations of Computer Science, Computer Architecture.
- **Systems & Software:** Programming in C/C++, Programming in Java, System Administration, Network Theory & Design.
- **Mathematics:** Calculus I, Introduction to Statistics.
- **Honors:** Dean's List

TECHNICAL SKILLS

- **Languages:** Python (Advanced/Project), Java, C/C++, SQL (Database Concepts), Swift, Shell Scripting.
- **Frameworks & Libraries:** PyQt6 (GUI Development), FFmpeg (Video Processing), PyQt6-Fluent-Widgets (Fluent Design), SwiftUI, watchOS SDK, Google Generative AI SDK.
- **Tools & Technologies:** Git/GitHub, PyInstaller, Inno Setup (Windows Installers), Xcode Command Line Tools, Virtual Environments (venv).
- **Concepts:** Hardware Acceleration (NVENC, AMF, QSV), Multi-platform Packaging (Windows, macOS, Linux), Data Structures, Network Protocols, Mobile UI/UX, Asynchronous Programming, LLM Integration.

PROJECTS

Vidcord | GitHub **Jul. 2024**

- **System Architecture**: Architected a high-performance, cross-platform GUI application in Python to automate complex FFmpeg command-line operations for video transcoding and compression.
- **Hardware Optimization**: Engineered multi-vendor hardware acceleration support (NVIDIA NVENC, AMD AMF, Intel QSV), significantly reducing CPU overhead and increasing processing speed.
- **UI/UX Engineering**: Developed a modern, responsive interface using PyQt6 and Fluent Design patterns, implementing lazy-loading and asynchronous processing for an instant-start user experience.
- **CI/CD & Deployment:** Automated the full distribution pipeline using GitHub Actions (.yml) to build and package releases for Windows (.exe), macOS (.pkg), and Linux (.AppImage) via PyInstaller and Inno Setup.
- **Version Control**: Managed the entire development lifecycle through Git/GitHub, utilizing branch management and documentation for software maintainability.

Gemini-Watch | GitHub **Dec. 2025**

- **Mobile Engineering:** Architected and developed a native watchOS application using SwiftUI to provide a seamless AI chatbot experience on Apple Watch.
- **AI Integration:** Implemented the Google Gemini API (using the GoogleGenerativeAI SDK) to handle complex natural language queries and generate contextually aware responses.
- **Performance Optimization:** Optimized API request handling and asynchronous programming using Swift Concurrency (async/await) to maintain UI responsiveness on a wearable device.
- **UX/UI Design:** Designed a lightweight, "glanceable" user interface specifically for small-screen wearable devices, focusing on efficient text input and readable AI output.
- **Secure Data Handling:** Managed sensitive API credentials by implementing a secure storage system using Property Lists (.plist) or Keychain, ensuring best practices for secret management.