

Elvis Claros Castro

Full Stack Developer · Self-hosted Infrastructure · Local AI Tooling

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SUMMARY

Advanced Computer Engineering student and full stack developer at the University of Buenos Aires School of Engineering (FIUBA) since 2021. I run my own production infrastructure and build apps (one published on Google Play) and tools in Rust, Kotlin and Python that integrate local AI models: speech, translation and language. I use AI-assisted development (Claude Code) daily.

EXPERIENCE

Full Stack Developer · School of Engineering, University of Buenos Aires	2021 – present
• Development of new web systems for the School and maintenance of existing ones.	
Volunteer Teaching Assistant · Algorithms and Programming I, FIUBA	2016 – 2018
Self-employed · moving and construction work, Greater Buenos Aires	2011 – 2020

PERSONAL PROJECTS

- **Android TV Remote for Wear OS** (Kotlin, Jetpack Compose, Room, Protocol Buffers) — published on Google Play. Discovers TVs via mDNS, pairs using the official protocol over TLS and controls the TV from the watch, with voice and keyboard.
- **assist-p** (Rust, llama.cpp, Canary, qwentts.cpp) — fully local voice assistant: a pipeline of threads and channels that starts speaking while the model is still writing; searches the web, looks through the camera and reads the screen.
- **overleaf-ce-sync** (Python) — two-way, git-like sync for self-hosted Overleaf.
- **claude-logbook** (Python, standard library only) — browser for local Claude Code conversations, in the terminal or as HTML.
- **posta** (Rust) — IMAP/SMTP mail client for the terminal, with JSON output for scripting.
- **translate-tts** (Rust, CTranslate2, qwentts.cpp) — translates text and reads it aloud, keeping the models loaded.
- **Terminal tools** (Rust, Node.js) — llm-tune (LoRA training), drae (Spanish dictionary) and wa-cli (WhatsApp).
- **Code-generated educational videos** (Python, Manim, Blender, Godot) — 25 math and physics videos made end to end on local hardware, with physics simulated in Godot (Jolt), synthesized narration and Whisper verification.

OPEN SOURCE CONTRIBUTIONS

- **waycal** (Rust) — Google Calendar and Tasks integration and a CalDAV backend for Nextcloud (pull request).
- **nextcloud_password_client** (Dart) — reusable core and a new CLI, with an encrypted local vault for offline use.
- **connmap** (C, GTK4) — geolocation with a local GeoIP database and Arch Linux packaging.
- **cmp-ai** (Lua, Neovim) — llama.cpp backend for code completion and blink.cmp compatibility.
- **Other:** pull request to MarlinSimUI and fixes in roop and oil-image-preview.nvim.

ACADEMIC TEAM PROJECTS (FIUBA)

In C: shell, priority scheduler and a FUSE file system · In Python: NAT over SDN (OpenFlow) and reliable file transfer (Selective Repeat).

SELF-HOSTED INFRASTRUCTURE (IN PRODUCTION)

- Mail (Postfix, Dovecot, rspamd), DNS with BIND for all.ar, claros.ar and elvis.ar, and self-hosted Nextcloud, Overleaf and Git with Docker behind Traefik.

TECHNICAL SKILLS

Languages	Python, Java, PHP, JavaScript (advanced) · Kotlin, Rust, C, C++, Haskell, Bash (intermediate) · Smalltalk, Assembly (basic)
Web & mobile	Laravel, React, Android with Jetpack Compose and Wear OS (intermediate) · Vue, Tailwind (basic)
Databases	PostgreSQL, MySQL (advanced) · SQLite, MongoDB (intermediate) · Redis (basic)
Local AI & data	llama.cpp, Ollama, LoRA · whisper.cpp, faster-whisper, Canary · CTranslate2 · qwen-tts, Piper, MeloTTS · Stable Diffusion, ComfyUI · pandas, Spark
Infrastructure	Linux, Docker, Traefik, Postfix, Dovecot, BIND, Nextcloud, MinIO (S3), Terraform, QEMU, Git

EDUCATION

Computer Engineering · School of Engineering, University of Buenos Aires	in progress
Medicine, foundation cycle · Universidad Mayor de San Simón, Bolivia	2009 – 2010
High School Diploma in Humanities · Col. Prof. Victor Rosale B., Cochabamba, Bolivia	2005 – 2009

LANGUAGES

Spanish (native) · English (intermediate technical reading and writing, basic speaking) · Quechua