Leonardo Zelenski

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Backend/Software developer focused on Python and Linux. I build dotfiles, automate processes and explore open source tools.

Projects

Droninho32 | *C/C++ (ESP32), Kotlin, Django REST Framework, PostGIS, Docker* May 2025 – July 2026

- Built a modular ESP32 drone platform as my final vocational project (PAP), spanning flight firmware, an Android control app and a Django backend
- Wrote the ESP32-S3 firmware in C/C++, driving four ESCs over 50 Hz hardware PWM and fusing MPU6050 attitude through a complementary filter with NEO-6M GPS
- Streamed JSON telemetry over Wi-Fi behind a five-state safety machine with zero-throttle arming and heartbeat failsafe
- Developed the Kotlin/Jetpack Compose app (MVVM): virtual joysticks, MJPEG video, osmdroid maps, offline flight sync
- Built the Django REST Framework backend on PostgreSQL/PostGIS with Docker Compose: token-authenticated API, GeoJSON routes, WebSocket telemetry, TOTP and email 2FA
- Shipped web dashboards with flight heatmaps, anomaly detection and CSV/Excel/PDF export

PDF Processing Automation | *Python, GitHub Actions, Windows/macOS/Linux, ExtendScript* 2026

- Engineered cross-platform automation tools for PDF processing workflows at Munit
- Compiled and distributed Windows, macOS and Linux builds through GitHub Actions
- Cut processing time at that stage of the workflow by roughly 80%

Experience

Software Engineer (Internship) Apr. 2026 – July 2026

Munit Marketing Digital Publicidade *Lisbon, Portugal*

- Built web applications and features in Python, Django, JavaScript, HTML, CSS and Bootstrap
- Automated Adobe production workflows with ExtendScript, removing manual steps from the design pipeline
- Worked fully remotely on client-facing projects, raising scope questions and proposing alternatives
- Wrote the documentation and owned version control for both projects delivered during the internship

Test Automation Engineer (Internship) Jan. 2025 – Apr. 2025

Slice, Sistemas Lógicos de Informática *Lisbon, Portugal*

- Developed a C# desktop application with Windows Forms and DevExpress components to drive test automation
- Automated repeated test runs, which cut the manual effort in the testing process
- Added a logging feature that exports run results to a database

Holiday Activity Supervisor Dec. 2025 – July 2026

Junta de Freguesia da Estrela *Lisbon, Portugal*

- Ran Christmas, Easter and summer holiday programmes for groups of children aged 6 to 8

Education

Escola Profissional Bento de Jesus Caraça Lisbon, Portugal

Vocational Course in IT Systems Management and Programming (EQF 4), final grade 18/20 *Sep. 2023 – July 2026*

Technical Skills

Languages: Python, SQL, Nix, JavaScript, TypeScript, ExtendScript, C#, C/C++, Objective-C, Lua, PHP, Kotlin, HTML/CSS
Frameworks: Django, Django REST Framework, Next.js, Bootstrap, .NET, Windows Forms, Jetpack Compose, Tkinter, Bun
Databases: PostgreSQL, PostGIS, MySQL, MariaDB
DevOps & Tools: Git, GitHub, GitLab, Codeberg, GitHub Actions, Docker, Podman, Kubernetes, cPanel
Systems & Shells: GNU/Linux, macOS, Windows, Zsh, Bash, PowerShell 7
Other: Arduino (ESP32), Android Studio, Adobe ExtendScript Toolkit, Adobe Creative Cloud, Microsoft Office

Certifications & Languages

Cisco: Introduction to Cybersecurity, Introduction to Modern AI, Digital Security and Protection Awareness (2026)
SoloLearn: Intermediate Python (2025), Intermediate C# (2024)
Languages: Portuguese (native), English (C1, EF SET 65/100), Spanish (C1)