ALIRIO DA ROCHA

Software Engineer | Backend Development

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SUMMARY

Computer Science graduate (FAU, GPA 3.79) who has designed, built and shipped two complete products end to end: a Python/FastAPI and Flutter platform and a C#/.NET 8 desktop application with its own licensing and authentication backend. Five and a half years of hands-on troubleshooting, security hardening and customer work at Geek Squad, including Apple device repair operations. Fluent in English and Portuguese, conversational Spanish.

EDUCATION

Florida Atlantic University, B.S. Computer Science Boca Raton, FL | Dec 2025

GPA 3.79 | Coursework: Operating Systems, Algorithms, Data Structures, Artificial Intelligence, Database Systems, Big Data Analytics

TECHNICAL SKILLS

Strongest: Python, FastAPI, C#, .NET 8, WPF, PostgreSQL, SQLAlchemy, REST APIs, Git

Working knowledge: Flutter, Dart, Supabase, WebView2, JWT and token-based authentication, automated and regression testing

Familiar: C, C++, Java, Swift, Power Platform, Cloudflare, Render

PROJECTS

DRIFTR: Desktop Platform & Licensing Backend Oct 2026 – Present | GitHub

C#, .NET 8, WPF, WebView2, FastAPI, SQLAlchemy, Alembic

- Built a WPF desktop app running up to four isolated browser sessions, each with its own cookies, storage and persistent account profile.
- Designed a FastAPI licensing service supporting free, monthly and lifetime plans with one-device enforcement, serving 10+ users over more than a month.
- Implemented rotating refresh tokens with token-family invalidation and DPAPI-protected local storage to reduce session-token theft and reuse risks.
- Delivered version-to-version profile migration to preserve account data; validated 290 desktop assertions and 410 licensing backend tests.

GradingFy: Card Scanner & AI Grading Platform Jun 2026 – Present | Case study

Flutter, Dart, Python, FastAPI, PostgreSQL, Supabase

- Built a cross-platform mobile app and FastAPI backend for collection tracking, market pricing, card scanning and automated card grading.
- Reduced repeat market-data lookups with PostgreSQL caching and provider fallback, persisting missing card records for reuse.
- Designed a pluggable market-provider layer so new regional data sources can be added without changing the mobile app.
- Protected releases with 279 passing Flutter tests and 2,866 passing API tests across mobile, backend, scanner and grading pipelines.

Smart Conservation System: Engineering Capstone Dec 2025 | STOP

- Delivered a secure reporting system with Power Automate workflows and Power BI dashboards for STOP (Sea Turtle Oversight Protection), supporting a program of 181 volunteers.

PROFESSIONAL EXPERIENCE

Geek Squad (Best Buy), Advanced Repair Agent / Apple Specialist Oct 2017 – Apr 2023

- Diagnosed and repaired Windows and macOS systems; handled malware removal, data recovery, device security and post-repair QA.
- Served as Apple Specialist for iPhone repair intake, service logistics, repair tracking and device handoffs.
- Trained 10+ agents, received a Best Geek Squad Agent award and maintained over 95% average customer satisfaction across a year.

LANGUAGES

English (fluent), Portuguese (fluent), Spanish (conversational)