ABEL
García Rubio

📍 Innsbruck, Austria   📞 +43 664 1476848

✉️ a.grubio@hotmail.com   in agrubio

🌐 agrubio.dev

❯ Senior Python developer and Physicist

PROFESSIONAL SUMMARY

- Experienced and versatile backend developer with over 8 years of expertise in designing and deploying scalable microservices and high-performance data systems using Python, FastAPI, and Docker.
- Strong background in physics and mathematics, combined with hands-on experience in cloud infrastructure, CI/CD automation, and real-time data processing.
- Proven ability to lead development teams, drive architectural decisions, and deliver production-ready software solutions — with a growing focus on security, including hands-on exploration of vulnerable applications like OWASP JuiceShop

TECHNICAL SKILLS

- **Backend**: Python (Django, FastAPI), Cython, C++, C#, Matlab, R
- **Database**: PostgreSQL, MySQL, MongoDB, ElasticSearch
- **Cloud**: Private Cloud (self-managed), AWS (EC2, S3, Lambda)
- **Frontend**: Angular, React, TypeScript, Javascript, Node, HTML, SCSS
- **Infrastructure**: Docker, Kubernetes, RabbitMQ, Kafka, keycloak, Fortify
- **Methodologies**: SOLID, TDD, CI/CD
- **Tools**: Git, GitHub/GitLab, SonarQube, Fortify

PROFESSIONAL EXPERIENCE

❯ Santander Bank S.A. / NovaQuality   Innsbruck, Austria

▶ **Senior Python developer**   02/2024 - Present
- **Refactored and optimized** core banking services in production, leveraging SonarQube to detect code smells, enforce quality gates, and enhance long-term maintainability.
- Integrated **microservices architecture** with Python and FastAPI, streamlining backend processes, **reducing API response time** through SOLID principles while securing authentication with **Keycloak**.

❯ Brainy   Zaragoza, Spain

▶ **Senior Backend developer**   04/2023 - 02/2024
- Used **SonarQube** to ensure code quality and guide the development of a scalable microservices architecture.
- Automated CI/CD pipelines using **GitLab**, reducing deployment time by **50%** and increasing release frequency.
- Integrated **Keycloak** as an identity provider across microservices, implementing OAuth2/OIDC flows and securing API communication against common authentication vulnerabilities.

❯ Aragon Photonics Labs   Zaragoza, Spain

▶ **Lead R and D Engineer / CTO**   09/2021 - 04/2023
- Led a **5-person technical team**, managing AI-driven research projects in collaboration with universities.
- Optimized **real-time signal processing algorithms**, increasing data analysis speed by **85%** in photonic devices.
- Developed and maintained a **Dockerized microservices architecture**, improving software scalability and deployment efficiency.
- Managed **GitLab CI/CD** workflows, reducing software release cycles from **3 weeks to 1 week**.

▶ **R and D Engineer**   10/2020 - 09/2021
- Designed and implemented **high-performance data processing pipelines**, reducing computational time for seismic and audio data analysis by **40%**.
- Applied **SOLID and TDD principles** to refactor legacy code, improving maintainability and test coverage.
- Processed **terabytes of real-time data**, enabling advanced analytics in photonic measurement systems.

▶ **Project Engineer**   02/2019 - 10/2020

❯ Efor, Internet and technology   Zaragoza, Spain

▶ **Data analyst**   04/2017 - 11/2017

❯ Kampal Data Solutions, BIFI, L.S.   Zaragoza, Spain.

▶ **Internship**   05/2016 - 06/2016

EDUCATION

❯ Master in physics of complex systems
UNED 2020 - 2021, Zaragoza, Spain.

❯ Master degree in mathematical modelling, statistic and computing   UNIZAR & UPV/EHU 2016 - 2018, Zaragoza, Spain.

❯ Degree in physics   UNIZAR 2011 - 2016, Zaragoza, Spain.