Paulo Chiliguano

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👤 Professional summary

C++ software developer with 6+ years of experience designing and implementing cross-platform desktop applications with a recent focus on API integrations. Skilled in Modern C++ and Python. Experienced in the full software development lifecycle across major operating systems with a strong foundation in networking.

⚙ Skills

Programming Languages C++17/20, Python

Tools Bazel, CMake, Git, Docker

🥧 Experience

BairesDev
C++ Engineer

Jan 2025 – Present
Remote

Project: Pinterest Engineering & Product-Online Systems.

> Worked on operating systems migration and APIs upgrades.

Tech: C++, Python, Linux, Bazel, Docker

Crowdbotics
Software Development Consultant

Nov 2019 – Jul 2025
Remote

Project: Dorsa Platform-as-a-service for augmenting perioperative processes.

> Enhanced speech-to-text experience on the dorsa hub device.
> Automated system connectivity and authentication through IPsec VPNs and network configuration scripts.
> Maintained the dorsa.ai website.

Tech: Python, Linux, GCP, Docker, GCP, Circle CI

Software Developer
Freelance

Feb 2019 – Nov 2024
Remote

Clients: Pulsar Modular, Audiomodern, HKBU Academy of Music, Krekeltronics, Persp3ctive, Cypha.app

> Refactored multiple legacy codebases to comply with Modern C++ design principles, improving maintainability and performance.
> Applied debugging and profiling tools to identify and resolve concurrency and memory issues.
> Collaborated with distributed teams to define architecture, perform code reviews, and ensure high code quality through unit testing and static analysis.

Tech: C++, JUCE, Python

Outcome: Refactored and shipped five commercial products used by music professionals.

BairesDev
C++ & JUCE Engineer

Oct 2022 – Mar 2024
Remote

Project: Resonant Cavity App for musicians and creators to apply voice processing software in novel and useful ways.

> Lead the development of Voloco Producer v2.0 audio plug-in.
> Improved system maintainability by enforcing consistent architecture.

Tech : C++, JUCE, CMake, Git, Figma

Universidad Tecnica Estatal de Quevedo   May 2016 – Sep 2018
Lecturer   *Quevedo, Ecuador*

> Managed Oracle Academy membership and delivered Java Fundamentals training.
> Provided programming and software design instruction for engineering undergraduates.

Tech: Java

⚗ Projects

Hybrid music recommender using content-based and social informa-   Nov 2014 – Nov 2016
tion

> Developed a hybrid recommendation system combining content-based and social information using deep neural networks and estimation of distribution algorithms to model user listening behavior.

🎓 Education

Queen Mary University of London   2014 – 2015
MSc in Sound and Music Computing   *London, United Kingdom*

Army Polytechnic School (now University of the Armed Forces ESPE)   2004 – 2009
BSc Major in Electrical Engineering and Telecommunications   *Sangolqui, Ecuador*