Fernando Antonio Simoes Tona
Software Engineer | Full Stack Developer
Software Developer with a background in classical music and C++/C# engineering

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 github.com/fernandotonacoder | linkedin.com/in/fernandotona

Skills

Languages: C++, .NET/C#, SQL, TypeScript, JavaScript, Java, C

Technologies & Tools: CPPUnit, MSTest, XUnit, NUnit, PostgreSQL, SQL Server, CosmosDB, Git, Azure/Scrum, Agile, TDD, CI/CD, React, Visual Studio, Visual Studio Code, IntelliJ IDEA, Rider

Music skills: Sibelius, Musescore, Audacity, Music Notation, Composition, Music Arrangements

Work Experience

Associate Engineer, Unit4   *Portugal (Remote), Mar 2023 – Present*

Maintained backend code in C++ and .NET/C# for payroll and HCM features in both desktop (Windows) and cloud-based (Azure) ERP systems. Wrote automated tests (CPPUnit, NUnit, XUnit, MSTest). Designed APIs, fixed critical bugs, and occasionally contributed to the frontend.

• Designed RESTful APIs powering core payroll operations.

• Increased test coverage by 30%+ in legacy and modern codebases.

• Resolved 30+ production bugs in ERPx/ERP7, improving stability.

• Fixed SonarQube/Mend vulnerabilities to reduce security risk.

• Contributed to Payroll Navigator for configurable workflows.

Graduate Engineer, Unit4   *Portugal (Remote), Nov 2022 – Feb 2023*

Built a full-stack web application during Unit4 Academy internship. Strengthened technical foundations and collaboration skills in a fast-paced, team-oriented setting.

Teacher of Classical Guitar & Chamber Music,   *Oliveira do Bairro, Portugal, Sep 2010 – Jul 2025*
Conservatório de Música da Bairrada

Provided instruction in classical guitar and chamber music at an official Portuguese conservatory. Taught individually and in ensembles. Composed and arranged music for institutional projects.

Freelance Musician, fernandotona

Professional classical guitarist and composer with 15+ years of experience. Perform, compose, and arrange music, with deep knowledge of music notation and ensemble collaboration.

Education

Universidade Aberta: Bachelor's Degree in Computer Science

Code for All: Full Stack Software Developer (on-site bootcamp)

Universidade de Aveiro: Master in Music Education (Classical Guitar and Chamber Music)

Universidade de Aveiro: Bachelor's Degree in Music: Classical Guitar

Languages

English: Full professional | **French**: Elementary | **Portuguese**: Native (European) | **Spanish**: Native (LATAM)

Projects

Classical Guitar Composition with Sibelius
Original score professionally typeset and engraved in Sibelius. Available for sale on Ko-fi.

Personal Portfolio (in progress)
For upcoming full-stack and backend software projects, please visit: github.com/fernandotonacoder

Additional Information

Citizenship: Portuguese (EU)   **Location**: Open to relocation or remote (currently based in Europe)