

CLARISSE CARVALHO

Software Developer & Researcher

📍 Porto, Portugal · 🌐 MitsukiS16 [in](#) sissimaria01 [ig](#) sissimaria01



EXPERIENCE

Researcher Apr 2026 — Present
INESC TEC Porto, Portugal

- Researching signal and image processing methods for neuroengineering applications, including neurological disease analysis.
- Developing machine learning and embedded/ mobile solutions for biomedical data processing and research projects.

Software Developer Feb 2025 — Jun 2025
Craftable, Lda Matosinhos, Portugal

- Developed backend services and an Android application with online/offline support using .NET/C#, PostgreSQL, MongoDB, and APIs.
- Contributed to CI/CD, code reviews, mentoring, and AI-driven features to improve the Percursus app experience.

Associate Monitor Jul 2024
University of Porto Porto, Portugal

- Monitor of the summer course "3D Object Modelling" at the Junior University Program of University of Porto.
- Encouraged interest in computer science and digital design by teaching basic programming concepts to younger students.

IT Support Jul 2023 — Sep 2023
EuPago Porto, Portugal

- Provided technical assistance to clients by diagnosing code errors, resolving software bugs, and meeting specific requirements.
- Contributed to website improvement efforts, including optimizing code and creating new features.

PROJECTS

RingNet May 2026 — Present

- Full-stack bird-ringing platform (TypeScript, React, .NET, PostgreSQL) with real-time data collection, offline sync, JWT auth, and an admin validation workflow.

Public Ledger for Auctions Apr 2026 — May 2026

- Decentralized auction platform in Java using Kademlia DHT, gossip protocol, and Proof-of-Work blockchain; orchestrated with Docker Compose.

Code & Grow Nov 2024 — Dec 2024

- Web-based serious game for learning Python (HTML, CSS, JavaScript, Figma) with a virtual pet system and progressive coding challenges; developed with iterative user-centered design during Erasmus+ at Paris-Saclay.

ABOUT

Software developer and researcher with a background in backend systems, networks, and AI. Currently at INESC TEC applying LLMs to biomedical data. Passionate about building systems that bridge engineering and real-world impact.

EDUCATION

M.S. in Network and Information Systems Engineering
University of Porto, Portugal
Present

B.S. in Informatics and Computing Engineering
University of Porto, Portugal

M.Sc. in Computer Science
Université Paris-Saclay, France
Erasmus+ Experience

HARD SKILLS

Languages: Python, C#, C/C++, Java
Backend: .NET, REST APIs, JWT
Databases: SQL, PostgreSQL, MySQL, MongoDB
Web: HTML, CSS, TypeScript, React, Node.js
Mobile: Android, Kotlin
3D & Game Dev: Blender, Unity, Godot
Cloud & DevOps: Git, Docker, AWS, Azure
Networking: VPN, Firewalls
Security: Wireshark, Fortify, GnuPG, GDPR
OS: Linux (Arch, Debian, Ubuntu), Windows

LANGUAGES

Portuguese: Native
English: Fluent
French: Intermediate
Spanish: Intermediate

VOLUNTEER

OWASP Porto: Nov 2024 — Present
Math Tutor: Oct 2021 — Mar 2026
NCGM: Sep 2021 — Sep 2024