

NICOLA CARAMBIA CORBELLA

BACKEND ENGINEER · JAVA · ELIXIR/PHOENIX · POSTGRESQL

CONTACT

nicola.carambia@protonmail.com

porfolio.nekaso.es

linkedin.com/in/nekaso

Osaka, Japan

Student visa · up to 28 h/week until Sep 2027 · Full-time from Oct 2027

ABOUT ME

Backend engineer. Java is my strongest language (core of my degree)

Professional experience in Elixir/Phoenix and PostgreSQL: database design, legacy refactoring and multi-tenant architecture

Moving into cloud and security

TRAINING

Cisco NetAcad | CCNA 1–2–3 courses

Udemy | Spring Framework 6 & Spring Boot 3

AWS Academy | Cloud Security Foundations

LANGUAGES

Spanish:	Native
English:	B2 CEFR
Japanese:	approx. N4 (JLPT N5 certified)

WORK EXPERIENCE

MARKYP | Own product

November 2024 – June 2025

- Grade-management web app for schools: Elixir, Phoenix LiveView and Tailwind
- Multi-tenant design: isolated PostgreSQL schema per school, resolved by subdomain
- Role-based access for 5 roles (admin, teacher, form tutor, head of department, student)

DOOFINDER | Elixir Full-Stack Engineer (part-time, fixed-term)

August 2024 – November 2024

- Refactored legacy database logic in a production Elixir/Phoenix codebase
- Wrote and ran PostgreSQL migrations in production
- Found and fixed an unbounded DB field that risked exhausting storage
- Shipped through strict code review: small PRs, three reviewers each

FABRICK SOLUTIONS SPAIN | Software Engineering Intern

September 2023 – May 2024

- Designed and deployed the PostgreSQL database behind a Power BI analytics app for international card transactions
- Co-developed in Python the communication system for a DGT stop-sign sensor

DELIVERIT (UPM) | Research grant → Bachelor's thesis

March 2023 – June 2023

- Built the manual grading module of UPM's programming-assignment platform (Elixir/Phoenix)
- In use in UPM programming courses since Sep 2025 · Thesis: oa.upm.es/82497

EDUCATION

DOSHISHA UNIVERSITY (同志社大学) + UPM | Double Master's Degree

September 2024 – September 2027 (expected)

- MSc Computer Science + MSc Informatics Engineering
- Thesis (NISLab): route planning for automated vehicles with pedestrian trajectory prediction and V2X

UNIVERSIDAD POLITÉCNICA DE MADRID | BEng Computer Engineering

September 2020 – June 2024 | GPA 7.9/10 (top 13% of cohort)

- Main languages: Java (object-oriented design, data structures, team software projects) and C

PROJECTS

- Home lab: TrueNAS SCALE server on a custom PC (ZFS) hosting Markyp, plus self-hosted services in Docker, with secure remote access via Tailscale. Second NAS with OpenMediaVault and RAID on a Raspberry Pi
- Portable Wii console: custom PCBs, battery management and 3D-printed case

SKILLS

Programming	Java, Elixir, SQL, C, JavaScript, Python
Frameworks	Phoenix / LiveView, Tailwind CSS
Data	PostgreSQL (schema design, migrations), Power BI
Tools	Git (GitHub, GitLab), Docker, Linux, Jira
Self-hosting	TrueNAS SCALE, ZFS, Tailscale