

Lloyd Costa

📍 Coimbra, Portugal ✉ lloydcosta@hotmail.com 📞 +351 912719978 🌐 in/lloyd-costa-3355a0b1 🏠 geoffrey87.github.io/website

SUMMARY

Civil engineer with over 10 years of experience. After deciding to change careers, I completed a postgraduate course in software development. The skills developed throughout my engineering career, particularly communication, problem solving, and teamwork were essential to my progress in this new area.

EXPERIENCE

Full-Stack Developer

MyNook.social (Personal Project)

March 2026 - Present

- Designed and developed a production-ready social networking platform from concept to deployment, defining domain models, system architecture, and application workflows.
- Built a full-stack solution using ASP.NET Core, C# and PostgreSQL for the backend, and Next.js, React and TypeScript for the frontend, following SOLID principles, layered architecture, dependency injection, and automated testing practices.
- Implemented secure authentication and authorization mechanisms, including JWT access and refresh tokens, 2FA (TOTP), role-based access control (RBAC), account lockout policies, email verification, audit logging, rate limiting, and security headers.
- Developed a server-side session management architecture using HttpOnly cookies, protected routes, React Server Actions, and real-time notifications through SignalR.
- Created administrative tools for platform moderation, including user management, content reporting workflows, image moderation, and account suspension capabilities.
- Containerized and deployed the application using Docker and Docker Compose on a cloud-hosted Linux environment, integrating Cloudinary for media storage and implementing automated background services for maintenance, data retention, and GDPR-related account lifecycle management.
- Implemented multilingual support (3 languages), transactional email workflows, monitoring of platform operations, and compliance measures aligned with GDPR requirements.

Software Developer - Freelancer

Confidential client

June 2025 - July 2025, Coimbra

- Development of a holiday management application used by a client company, allowing employees to schedule holidays and managers to approve or reject requests.
- The system includes dedicated dashboards for administrators, employees, and managers, providing a clear and efficient workflow.
- The application was thoroughly tested with unit and integration tests, ensuring reliability and maintainability.
- It exposes well-defined REST API endpoints, which were also tested and validated.
- The entire application is fully documented and was designed with scalability in mind, allowing it to evolve and grow according to future needs.
- Delivered as a containerized application ready for use by the company.
- Tech Stack: Java (Spring Boot), React, PostgreSQL, Docker, Docker Compose.
- Tested with: JUnit, Mockito, Postman.

Civil Engineer

Horizonte Global || Kora Angola - Group Mitrelli

2012 - 2023, Portugal and Angola

- Developed and executed specialty engineering projects, including structural systems, water supply, and wastewater drainage - Portugal;
 - Supervised public infrastructure works, including preparation of technical reports and meeting minutes, and maintained direct communication with governmental authorities - Angola;
 - Oversaw rehabilitation works in urban developments, ensuring compliance with project specifications and timelines - Angola;
 - Managed procurement, stock control, and logistics of construction materials, optimizing usage and reducing waste - Angola;
 - Led and coordinated after-sales service teams, ensuring quality follow-up and client satisfaction - Angola.
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EDUCATION

Data Science and Analytical Intelligence

IEFP · Coimbra · 2026

- Dataset analysis, preparation, and processing;
- Data cleaning, transformation, and modeling with Power BI and Power Query;
- Storytelling through data and business insights presentation;
- Creation of interactive dashboards and visual reports in Power BI;
- End-to-end analytics project based on real-world data sources.

Self-learning

Udemy, YouTube • 2024

- OutSystems 11 - Reactive application development and learning through platform tutorials.
- TypeScript - Basics to Advanced concepts and application in web projects.
- C#/Net - Basics to Advanced concepts and application in web projects.
- Angular - Basics to Advanced concepts and application in web projects.
- Python - Basics.

Postgraduate - Switch dev

ISEP • Porto • 2024

- Java Programming: OOA, OOD, OOP, DDD, ORM, Spring Boot.
- Application of SOLID, GRASP and Onion.
- QA: TDD, junit and Mockito.
- Database: Relational Model and SQL.
- DevOps: Version control with Git (with repository on GitHub), Docker, and Jenkins.
- Front-end: Basics of HTML, CSS, JavaScript and React.
- SmartHome project (which includes the aforementioned learning), carried out in a team project (10 people), inserted into a Product Backlog, with sprints of 2 to 4 weeks, applying scrum methodologies.

Bachelor's Degree in Civil Engineering

IPC • Coimbra • Sep 2007 - Jun 2011

SKILLS

C#;
ASP.NET Core;
Java;
Spring Boot;
TypeScript;
Next.js;
React;
Angular;
PostgreSQL;
MySQL;
Docker;
Jenkins;
Power BI;
