

PERSONAL INFORMATION

Carlos Frias ZapaterWebsite: <https://terracota-p.github.io/>

Phone: +34 619515903

Email: carlos.frias.zapater@gmail.com

Date of birth: 03/11/1980

POSITION

Senior software engineer, tech lead, full stack

RECENT WORK EXPERIENCE

2020-present

Senior software engineer

PeerWell (remote, US)

- software development, tech lead, design, architecture, best practices, CICD, agile

2017-2020

Senior, then principal software engineer

Orwell Group (remote, UK)

- software development, design, architecture, best practices, tech lead, CICD, IaC

2015-2017

Development team leader

Acotel/Exceltia (Spain)

- team lead, software development, architecture, inter-team coordination, agile

EDUCATION AND TRAINING

2017

Scrum Certified Professional

Scrum Manager – Centro Tecnologías Avanzadas (Zaragoza)

2017

PRINCE2 Foundation Certificate in Project Management

Axelos – Centro Tecnologías Avanzadas (Zaragoza)

2017

ITIL Foundation Certificate in IT Service Management

Axelos – Centro Tecnologías Avanzadas (Zaragoza)

2014

Kanban methodology

Agile Taste (Madrid)

2006

Computer science engineer (Bachelor's degree)

Centro Politécnico Superior (Zaragoza)

PERSONAL SKILLS

Job skills

Development: FP and OO; strong BDD, TDD, SOLID, clean code background; modern js & ts, node, java, python, go; k8s, docker, spring boot, kafka, streams; reactive, event-driven systems, DDD, event sourcing, CQRS; git, PRs; SQL/NoSQL; enthusiast, great motivation to keep learning.

Microservices, architecture: wide experience designing complex, distributed systems, decoupled microservices; REST APIs, openapi/swagger; API gateway (apigee, AWS), serverless lambdas.

CI/CD, provisioning, automated testing and deployment: test pyramid (automated unit, acceptance, integration tests), terraform, ansible, packer, AWS, automated versioning, jenkins, junit, mockito, cucumber, apickli, selenium.

Team skills, leadership, agile, devops: strong experience; as senior and principal engineer, in agile teams, promoting cross-teams best practices (continuous delivery, trunk-based development), and coordinating them, lead development teams up to 10 people.

Data access and databases: SQL (maria/mysql, oracle, postgresql), NoSQL (mongo, cassandra, scylla, mongoose), hibernate, JPA, liquibase (automated database change management).

Other software engineering skills: full lifecycle of products and projects, definition of procedures (change management, test and production deployment, acceptance tests, integration protocols, version planning, team development process, issue-tracking, version control, documentation).

Extended experience in mission-critical, SOC2-audited systems:

- Financial (PSD2, OpenBanking, SWIFT MT, ISO 20022 PAIN payments, CAMT cash management, DDEBIT debits, local formats).
- Medical (HIPAA PHI, EHR).

Other: reactive streams, storm, react.js, groovy, nginx, mongoDB, shell scripting, cryptography (OAuth2, public-key authentication, PGP, S/MIME, RSA, digital signature, OTP), SOC2...

Professional developer since 2006.

Languages

Spanish – Mother tongue

English – High level (understanding, speaking, writing)

ADDITIONAL INFORMATION

Remarkable Projects

PeerWell:

- Medical programs v2 - Content management and delivery (ts, node, cucumber, jest, docker, k8s, oauth2, jwt, mongo, express, nestjs, mongoose, jenkins).
- Identity management - OAuth2 server (js, node, cucumber, mocha, docker, k8s, oauth2, jwt, mongo).
- Partner API - Integrate Partner systems with PeerWell in an automated way (js, node, cucumber, mocha, docker, k8s, oauth2, jwt, mongodb, express, jenkins).
- Dashboard 2 - Portal and API for partner users and care team (js, node, react, redux, mocha).

Orwell Group:

- API products and Integration tests (node, cucumber, REST, apigee, AWS API Gateway).
- Registration, Product, Contract, Customer, Payments, AML and other microservices (k8s, REST, java, spring boot, node.js, mariadb, cassandra, kafka-streams, apigee, CI/CD, cucumber).
- Payments service for FPS, CHAPS, internal account transfers – common interface for payment initiation, indexing and searching (REST, solr, kafka, java, spring boot, storm, cucumber).
- Infrastructure as code: CICD, EKS, application-supporting environments (terraform, ansible, packer, python, AWS, jenkins, jira, artifactory, k8s...).

Personal: kanban board, web RPG (ts, js, node, express, react, redux, mongodb, REST, JWT).

Acotel/Exceltia:

- E2Bank Enel-to-Bank customized integration product (java) - Global implementation project E4E - Full SAP to E2Bank migration - Redefinition of all banking flows (payments, statements, direct debits)
- SB Enterprise-to-Bank integration product for Service Bureau (SaaS) and in-house deployment (java) - Integrations for big clients like Abertis, Iberdrola, Iberdrola USA, Grifols, Puig, Desigual...