

# Umberto Di Puerto

**Full Stack Developer & IT Consultant — Freelance**

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## PROFESSIONAL PROFILE

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### 🎯 Senior Full Stack Developer ( B2B Freelance Consultant )

Java · Spring Boot · Angular

I help companies and system integrators develop, maintain, and modernize complex web and enterprise applications, delivering solid and production-ready solutions with strong focus on code quality, security, and long-term maintainability.

I have over 10 years of experience on mission-critical projects in banking, public administration, and large enterprises. I operate exclusively as an external senior consultant.

### 🔧 How I can support you

- End-to-end full stack development (frontend, backend, integrations, database)
- Legacy system modernization and technical debt reduction
- Design and implementation of secure and scalable REST APIs
- Digital signature projects, PKI, X.509 certificates, eIDAS
- Targeted interventions on specific tasks, technical backlogs, or production issues

## TECHNICAL SKILLS

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**Frontend Development:** Angular 19+, React 19, TypeScript, JavaScript ES6+, HTML5, CSS3, SCSS, Tailwind CSS, Bootstrap 5, RxJS, Webpack, Vite

**Backend Development:** Java 7/8/11/17/21, Spring Boot, Spring MVC, Spring Security, Web Services (SOAP), SOAP UI, Node.js, Express.js, REST API, Maven, Gradle, Hibernate, JPA

**Database & Storage:** PostgreSQL, MySQL, Oracle, MongoDB, SQLite

**DevOps & Infrastructure:** Git, GitLab CI/CD, Jenkins, Docker, Kubernetes, Linux, Bash scripting, Maven, npm, Nexus Repository Manager, WiX Toolset

**Security & Authentication:** OAuth 2.0, JWT, Spring Security, LDAP/LDAPS, CVE Analysis, Vulnerability Assessment

**Digital Signature & PKI:** Digital Signature, Smart Card, X.509 Certificates, eIDAS TSL, PKCS#11, PAdES/CAdES/XAdES, OCSP/CRL, NexU, Yubikey, Bit4Id Middleware

**Desktop & Native Development:** Electron, C/C++ Integration, Windows Installer (WiX), Cross-platform Development

**Methodologies & Soft Skills:** Agile, Scrum, Code Review, Mentoring, Problem Solving, Technical Documentation, QA Processes

## PROFESSIONAL EXPERIENCE

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### Senior Java Freelance Consultant — Aruba S.p.A. (via Experis)

Client: Bank of Italy

Mode: Remote

Period: Sep 2024 – Feb 2026

- **Java Enterprise Projects Manager:** Complete management of Java projects for banking applications with digital signature and X.509/eIDAS certificates:
  - bdife-web (Banking Digital Identity Frontend)
  - pki-cruscotto-web (PKI Dashboard)
  - portaledeleghe-web and portaledelegheemail-web (Delegation Portals)
  - pkitolari-dss-web (NexU Digital Signature Service)
  - esecurityweb-core and secretstoreutils-core (Core Libraries)
  - portaledeleghe-conf and portaledelegheemail-conf (Configuration Modules)
- **Team Leader ArubaSign 25 Desktop:** Lead custom ArubaSign 25 version for Bank of Italy
  - Multi-environment build and release with GitLab CI/CD and Jenkins
  - Integration of C++ native libraries PKCS#11 for smartcards and hardware tokens
  - Automated startup, build, and deployment via Jenkins pipelines
  - Integration tools OfficeTool and verify\_otp for Office document signing
  - Installer with Bit4Id middleware for Yubikey support
  - Complete refactoring from LDAP to LDAPS as requested by client
- **ArubaKey Project:** Auto-update system modernization
  - Development of ArubaKeyLauncher with advanced update management
  - Cross-platform compatibility (Windows, macOS, Linux)
  - Legacy system replacement with modern and resilient architecture
- **Packaging & CI/CD:**
  - Installer creation with WiX Toolset for enterprise deployment
  - Jenkins pipeline management for multi-environment build and deployment
  - Release control and management with quality verification
  - Verifications and tests completed without issues, zero returns from QA
- **Infrastructure and Project Management:**
  - Over 16 Maven projects with differentiated JDK (Java 7-17)
  - Nexus repository management for artifacts and dependencies
  - Critical cross-repository bug analysis with advanced Git analysis
  - Library updates CAPI, pdfbox, jQuery for security and performance
  - Complete migration from Dimensions CM to Git for version control
- **Controls and Quality Assurance:**
  - Complete verifications on ArubaSign, BdIFE, DSS, NexU, ARSProvisioner
  - Software version control, rollback, session management
  - Certificate warnings and validation chain verification
  - PAdES/XAdES digital signature checks compliant with eIDAS regulation
  - LDAPS endpoint and LDAP client verification for secure authentication
  - Vulnerability analysis (CVE, jsessionid exposure, VPM security)
  - IPA job restoration for MySQL (Aruba) and Oracle (Bank of Italy) compatibility
  - Certificate revocation verification towards OCSP/LDAP
- **Documentation and Processes:**
  - Reorganization of existing documentation and production of new technical documentation
  - Aruba Git pipeline review and DevOps guidelines definition
  - Release checks and direct technical support to Bank of Italy client
  - All activities tested and verified before production commit, zero returns from QA

## Full Stack Developer — ReActive | AlmavivA Group

Client: Ministry of Economy and Finance

Mode: Rome (Remote)

Period: Sep 2022 – Jan 2024

- **MEF Client Management:** Full Stack Java 8 Developer for public debt management web portals "GEDI Central Debt" and "GEDI Local Debt"
- **Web Portal Development and Maintenance:** Implementation of updates and modifications for mission-critical applications for the Ministry of Economy and Finance
- **Junior Resources Supervision:** Junior team tutoring and mentoring, code review, best practices, technical skills growth
- **Technology Stack:** Java 8, Spring Boot, Spring Data JPA, JSP, modern frontend with enterprise frameworks

## Full Stack Developer — Kirey Group

Client: UniCredit, Intesa San Paolo

Mode: Rome (Remote)

Period: Oct 2021 – Aug 2022

- **Banking Institutions Consulting:** Consultant for UniCredit and Intesa San Paolo banks, DevOps process updates and modifications and monitoring applications
- **UniCredit DevOps Processes:** CI/CD pipeline updates and modifications, deployment automation, Jenkins configuration with Groovy scripting
- **Intesa San Paolo Monitoring Applications:** Development of banking system monitoring web applications with Java 8 and Angular 2+ stack
- **Testing and Quality:** Implementation of unit tests with JUnit, test automation, quality assurance on critical systems

## Full Stack Developer — Rpctech

Client: INPS, Enel X, Postel (Italian Post)

Mode: Rome (Remote)

Period: Sep 2020 – Oct 2021

- **Engineering and NTT Data Consulting:** External consultant for Engineering and NTT Data, INPS and Enel X feature development, Postel project maintenance
- **INPS and Enel X Feature Development:** Implementation of new features for public entity and utility web applications, Java 8 and Angular 2+ stack
- **Postel Projects Maintenance:** Bug fixing and evolutionary maintenance of Italian Post projects, legacy system management and modernization
- **REST and SPA Architecture:** RESTful API development, Angular Single Page Applications, frontend-backend integration with Spring Boot

## Full Stack Developer — RESI Informatica

Client: Ministry of Defense

Mode: Aprilia, Lazio (On-site)

Period: Nov 2018 – Sep 2020

- **Ministry of Defense Client Management:** Development and maintenance of SIAC portal (Integrated Accounting Administration System) for Ministry of Defense
- **SIAC Problem Resolution:** Bug fixing and troubleshooting of SIAC portal in legacy JSP technology, system and application management
- **Gemini Platform:** Collaborative development of web platform for network and communication service monitoring, modern full-stack architecture
- **SIAC Modernization with Angular:** Development of new SIAC portal version with Angular 2+, migration from legacy JSP technology to modern SPA

Java 8

REST API

JSP

Angular 2+

TypeScript

JavaScript

HTML5

CSS3

SQL Database

Git

Maven

## Intern - RPA Developer — Everis (now NTT Data)

Client: WINDTRE Italia

Mode: Rome, Italy

Period: Jul 2018 – Nov 2018

- **Technology Sector Internship:** Training internship in creating and optimizing Robotic Process Automation (RPA) processes at WINDTRE Italia
- **Blue Prism Bot Development:** Creation and configuration of automation bots with Blue Prism software for repetitive business processes
- **Visual Basic Scripting:** Development of VBA (Visual Basic for Applications) scripts for automating Microsoft Excel and Word operations
- **Process Optimization:** Manual process analysis, identification of automatable tasks, RPA solution implementation, testing and deployment

Blue Prism

RPA

Visual Basic

VBA

Microsoft Excel

Microsoft Word

## PERSONAL PROJECTS

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### Founder — Folder2Text

Period: 2026 – Ongoing | <https://folder2text.com> | Coming to Microsoft Store

- Desktop application for extracting and centralizing code and documentation from entire directories.
- Optimized for providing complex contexts to LLM models (AI Context management).
- Automatic token limit management and advanced extension filtering features.

C#

.NET

WPF

Windows SDK

### Founder — ClearCV

Period: 2026 – Ongoing | <https://clearcvapp.com>

- Development of a SaaS platform for AI-assisted creation of professional CVs.
- Multilingual management (23 languages), referral system, and multi-format export.
- Implementation of a freemium model with payment integration via Stripe.

React 19

TypeScript

Vite

TailwindCSS

Supabase

## EDUCATION

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**Java EE Specialization Course** — Sincrono S.R.L. (05/2018 – 06/2018)

**Surveyor Diploma** — Technical Institute "Leon Battista Alberti", Rome (2006–2011)

## LANGUAGES

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**Italian** — Native

**English** — Level B1 (Intermediate)

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