ALEJANDRO
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LinkedIn & Portfolio

Cork, Ireland & Jerez, Spain

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FULL STACK SOFTWARE DEVELOPER

I am a Computer Systems Eng. from the School of Computer Science, Sevilla, with over 15 years of development experience. I have successfully completed multiple production solutions in the fields of transport, agriculture, administration, and billing. My expertise includes designing, implementing, optimizing, and maintaining Android applications, back-office apps, internal-use apps, and public applications.

TECHNICALS SKILLS

Mobile	**Android Java**
Back end	**Java EE, JPA/Hibernate**, Keycloak Integration, Rest APIs
Databases	**Sql-lite, MySQL**, T-Sql, PostgreSql.
IDEs	**Android Studio, IntelliJ**, VS, SQL Server, Eclipse, Visual Code.
Web	HTML, HTML 5, Javascript, Jquery, Ajax, Bootstrap, CSS
.NET	MVC 4/5, EF 5/6, ASP, Linq, WebServices, WinForm, WebForm.
Version Control Systems	SVN, Git

JOB EXPERIENCES

SENIOR SOFT DEV — METRIC TRISTARINC IE

Nov 2015 - Sep 2024
Cork, Ireland

Started as a Junior Android Developer on a team of five software developers based in Cork, Ireland, and grew within the company to become a Senior Developer, leading multiple projects. Coordinated various projects, including the main company solution, satellite applications, support tools, and different integrations.

Project Futurefleet
Transport System

Throughout the years, my role on the Futurefleet project has involved the maintenance and update of the main company product, a comprehensive ticketing system oriented to passenger transport services. The system is composed of a primary Android application, satellite applications, and office applications, including reporting and support tools. This system is used by multiple bus operators in Ireland (NTA) and the Czech Republic, and is exploring markets in the UK, Spain, and beyond.

I collaborated with a cross-functional team as a full stack developer and designer on multiple Android and backend applications, covering everything from the presentation layer to the database. We adhered to an Agile methodology with two-week sprints. My responsibilities included design, development, code reviews, integrations, refactoring, and managing releases, all grounded in solid software engineering principles.

Some of my tasks on Futurefleet have been:

EMV Integration: Implemented EMV payment options on multiple devices running our mobile app (handheld devices, ETMs, validators). Managed communication from the card reader to the provider, integrating multiple payment platforms and hardware, and supported the development of reconciliation tools. Passed L3 certifications and PCI compliance.

Hardware Integrations: Led or actively participated in the integration with different hardware systems (card readers, EMV readers, LCDs, LEDs, audio, printers, validators, passenger counters) using the Android Framework. Implemented all integration and compatibility tasks using technologies such as REST APIs, CoAP, SCP, third-party SDKs, and custom .so libraries.

SENIOR SOFT DEV — METRIC TRISTARINC IE

Project Futurefleet (cont.)
Transport System

Back Office Communications: Designed, developed, and maintained communication mechanisms via REST APIs and file transfer management. A significant challenge was implementing a real-time system with optimized data consumption and network management.

Releases: Managed Android version releases, starting with Maven repository & Hudson platform for the initial versions, and transitioning to Gradle & Jenkins platform for the latest ones. Also responsible for internal and customer-facing documentation and coordinating the testing teams.

Keywords: Java Android, JSON Rest APIs, Android Studio, IntelliJ, SQLite, MySQL, SVN, JIRA & Confluence, Team work.

Project Hamburg
Transport TVMs Management

I have over 3 years of experience as a support developer with a German team at Almex (a sister company), focusing on the maintenance, design, and implementation of new functionalities for their JEE/JPA application, which had been neglected for several years.

This Java backend application manages the transport Ticket Vending Machine (TVM) systems for a project in Hamburg, Germany. Its responsibilities include device software management, task management, ticket templates, advertisements, and other features.

My responsibilities included the implementation of Keycloak authentication, REST APIs, advertisement management, device versioning control, and other key features and modules. Additionally, I updated third-party libraries (such as Primefaces) and project modules, as well as resolved bugs reported by testers. Implemented as well Docker instances for this project.

Keywords: JEE, JPA, SQLServer, Keycloak, OAuth2, Shiro, JSON REST API, IntelliJ, GIT, Github

ANDROID DEVELOPER — ELEVATOR APP DEVELOPMENT

Dec 2014 - Sep 2015
On Remote. London, UK

I joined the EAD's team as a remote freelance Java Android developer to help on the development of diverse applications for external clients. Remotely working but in close contact with the lead dev. Trying to keep iOS and Android development in the same line.

Project Hotpod Yoga

Android application for booking yoga classes on multiple centers, with map integrations. Published on Play Store.

.NET & ANDROID DEV — CONTROL WEB S.L.

Feb 2012 - Agu 2015
Jerez, Spain

During my tenure at Controlnet, I have evolved as a Web Application developer, gaining proficiency in both web technologies (ASP.NET, MVC, and Entity Framework) and desktop applications, as well as Android development. I have successfully delivered two comprehensive, functional projects that were subsequently marketed, overseeing every phase of their development. My role has often required strong problem-solving skills, which I applied to overcome various technical challenges. Additionally, I have collaborated with diverse teams on various VB .NET projects.

Project Controlnet
Mobile Sellers Management

Part of the team maintaining the main .NET application, creating different features like accountability modules.

Project Controlsur
Phytosanitary control tool

Solo Android SDK and .NET developer of a mobile application and backend management portal for on the field crop control, integrating data with gubernamental portals.

Project ControlTel
Mobile Cooperative Billing tool

Solo developer on .NET billing application for a mobile phone cooperative with more than 10k lines on Lebrija, Seville. Tariff controller, file processing, pdf designer, printing manager desktop app, ..

JSP & PHP DEV
May 2010 - Jan 2011
Guillena, Seville, Spain

SERMICRO

As computer engineer at Sermicro we developed various administrative applications for internal use for the Guillena Town Hall, Web and desktop applications.The development was based on JSP application using PostgreSQL, connecting with web services of Andalucía's regional government.

PHP DEV
May 2008 - Sep 2008
Guillena, Seville, Spain

GUILLENA TOWN HALL

Scholarship agreed between the University of Seville and Guillena's town hall. Working at the Technological Development department, we completed diverse tasks like networking, equipment maintenance..., we created administrative PHP applications and carried out maintenance on several applications developed with Access.

PERSONAL PROJECTS

SOFT DEV
On Going

PYCER

In my free time, I am collaborating with coworkers to develop our own applications using Kotlin Multiplatform, Jetpack Compose, Firebase, and AI tools. This project aims to enhance our skills in these technologies while creating a product that has the potential to become profitable in the future. This experience has allowed us to explore cross-platform development and deepen our understanding of modern app architectures, backend integrations, and AI-driven functionalities.

SOFT DEV
On Going

BRAINEIR

Working along old teammates building the bases for a web development software companies, using the latest AI trends, covering from the development to the deployment of the web sites and other applications.

EDUCATION

COMPUTER SCIENCE ENGINEER
University of Seville

REFERENCES

RAY QUINLAN
DEV TEAM LEAD

METRIC TRISTARINC

"I've worked with Alex for the best part of 8 years. In that time he has proven himself to be a very good developer, always conscious to think ahead and consider the potential impacts of the choices made. In this time he has established himself as our SME in our core business functionality. Alex is always willing to improve processes, ensure clear communication and good working relationships with other business units in the organization. His collaborative spirit and proactive attitude fostered a positive working environment and facilitated seamless interactions across teams. Alex has always proven to be punctual and reliable and will be sorely missed by many at MetricTristarInc. I would recommend Alex for any senior-level position where technical expertise, process improvement, and cross-functional communication are paramount."

ELEVATOR APP DEV
JAKE DUNCAN   CTO

"We were very impressed with the quality of work that Alejandro was able to produce. Although working remotely (from Spain) Alejandro was quick to reply to all communication and worked with us efficiently"

CONTROLNET
TONI GUBERN   TECH LEAD

"Worked with him in my capacity as Lead Developer and Alejandro has distinguished him by consistently submitting exceptionally well written and designed software code. He has very good analytical skills and is a fast and efficient coder."

PRO SKILLS

- JAVA
- ANDROID
- SQL
- BACKEND
- UI
- .NET