



# Carlos Scala

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## Software Engineer & Front-End Architect

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## About Me

I'm a **Computer Engineer** currently working as a **Systems Engineer** within a large-scale product team focused on the **user experience of a high-traffic TV streaming platform**. My role blends **solution architecture** with hands-on software development, where I specialize in **integrating external systems**, building **sustainable libraries**, and maintaining **clean, high-performance codebases**.

I'm passionate about software semantics and syntax alike: from choosing the right **design patterns**, enforcing architectural consistency, and boosting system performance, to improving developer experience through reusable, maintainable solutions. I approach every challenge with a mindset rooted in **clarity, precision, and long-term scalability**.

What drives me is not only solving technical problems, but also understanding the broader product and business context—ensuring that every architectural decision supports a better user experience and stronger platform evolution.

**Currently looking for senior or architectural roles where I can combine hands-on engineering with business-driven solution design.**

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## Professional Experience

### Systems Engineer – Telecom Argentina

*Jan 2024 – Present*

- Leading architecture and development tasks for a high-scale TV streaming application used nationwide, focusing on user experience and multi-platform performance (Android, Roku, iOS, Web).
- Developed reusable front-end libraries and backend service integrations using **JavaScript**, **Node.js**, and **React**, ensuring clean code practices and long-term maintainability.
- Integrated multiple **third-party APIs**, including internal SDKs and external service providers.
- Actively involved in **database design**, telemetry integration (**Grafana**, **OpenTelemetry**, **Loggly**), and system observability.
- Collaborated through **Azure DevOps** with cross-functional teams and stakeholders.
- Deployed services on **AWS**; conducted performance tuning across Linux, macOS, and Windows environments.
- Coordinated with mobile development teams working with **Kotlin** and **Swift**.

**Keywords:** Node.js, React, JavaScript, Architecture, Library Design, API Integration, Azure DevOps, AWS, Kotlin, Swift, Grafana, OpenTelemetry, Loggly, Android, Roku, iOS, Linux, macOS, Windows, Database Design

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## Technical Consultant / Sr Developer – Artware Software Solutions (Argentina)

*Mar 2020 – Jan 2024*

- Led Microsoft-based integration projects using **Dataverse**, **Power Platform**, **Dynamics 365 Finance and Operations** and **Business Central**.
- Designed **Power Automate** flows and **Power Apps** for multi-country operations.
- Developed in **AL language**, extending packaged ERP/CRM capabilities.
- Implemented RESTful integrations in **.NET**, **Node.js**, and **Golang**.
- Built reports and dashboards using **Power BI**.
- Managed CI/CD and version control via **Azure DevOps** and the **Azure Portal**.

**Keywords:** Dynamics 365, Business Central, Finance and Operations, AL Language, Power Platform, Dataverse, Azure DevOps, Power BI, Node.js, .NET, Golang, Integration, Clean Architecture

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## Full-Stack Developer – ROSS Outside the Box (Argentina)

*Mar 2021 – Jun 2021*

- Delivered a full **Node.js backend** integrated with **Salesforce CRM**.
- Built custom components in **React**.
- Participated in UX/UI design using **Adobe Illustrator** and **After Effects**.
- Supported API testing and frontend/backend data consistency.

**Keywords:** Node.js, React, Salesforce CRM, Adobe Illustrator, After Effects, Full-Stack Development, UX/UI, Integration

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## Freelance Developer & Technical Consultant – Self-Employed (Argentina)

*2007 – Present (occasional projects)*

- Developed custom desktop applications using Java and JavaFX, focusing on cross-platform solutions.
- Delivered custom software, hardware support, and consulting for small clients.
- Diagnosed systems and performed repairs on **Windows**, **Linux**, and **macOS**.
- Advised on infrastructure, data migration, and interoperability.
- Maintained continuous learning across **embedded systems**, **networking**, and more.
- *Currently focused on full-time team-based engineering roles.*

**Keywords:** Java, JavaFX, Freelance Development, Consulting, Cross-Platform Support, Linux, Windows, macOS, Hardware Repair, Custom Software, Embedded Systems

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## Skills & Expertise

**Languages & Frameworks:** JavaScript, Node.js, React, .NET, Golang, AL, Python, Kotlin, Swift, SQL, HTML/CSS

**Cloud & Platforms:** Microsoft Azure, Azure DevOps, AWS, Power Platform, Dataverse

**Architecture & Engineering:** Clean Architecture, System Integration, API Design, Design Patterns,

Performance Optimization

**Tools & Dev Workflow:** Git, Azure Repos, GitLab, Postman, Swagger, MongoDB, SQL Server, VS Code

**UI/UX & Design:** Front-End Architecture, Adobe Illustrator, After Effects

**OS & Devices:** Linux, Windows, macOS, Android, Roku

**Monitoring & Observability:** Grafana, OpenTelemetry, Loggly

**ERP/CRM Platforms:** Dynamics 365 (BC & FO), Power Apps, Power Automate, Salesforce (integration)

**Soft Skills:** Technical leadership, Business-oriented development, Communication with stakeholders, Mentoring, Self-learning, Problem solving, Research mindset, Product strategy alignment

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## Education & Certifications

**Computer Engineering** – Universidad Nacional de San Luis, Argentina (2013–2021)

**Computer Engineering** – EFREI – Grande école du numérique, France (2017)

**Dentistry (Incomplete)** – Universidad Nacional de Córdoba, Argentina (2008–2012)

### Certifications

- AI-102: Designing and Implementing an Azure AI Solution – Microsoft (2022)
  - 70-487: Developing Microsoft Azure and Web Services – Microsoft (2021)
  - Dynamics 365 Specialist – ArtiaTec (2022)
  - Project Management Expert (PMBOK) – UTN Buenos Aires (2023)
  - Frontend React Development – Coderhouse (2023)
  - Backend Development – Coderhouse (2024)
  - JavaScript & Web Development – Coderhouse (2023)
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## Languages & Citizenship

- Spanish (Native)
- English (Advanced – EFSET C2)
- French (Intermediate – B2)
- Argentine & Italian citizenship