

ALEJANDRO SÁNCHEZ

Senior Frontend Developer · Angular · TypeScript · RxJS

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PROFESSIONAL SUMMARY

Senior Frontend Developer with 5+ years of professional experience building enterprise-grade Angular applications. Former software developer at **CERN** (European Nuclear Research Centre), where I delivered full-stack solutions in a high-stakes, internationally collaborative environment — working daily in English across emails, code reviews, technical documentation, video calls, and demos. Deep expertise across the Angular ecosystem (v12–v22), including migrations, standalone components, lazy loading, RxJS/NgRx state management, and integration of custom and third-party component libraries. Solid grasp of auth patterns (OAuth2, Keycloak), REST API security, and modern frontend tooling. Complementary skills in Python scripting, automation, and scripting workflows. Comfortable working autonomously in async, remote-first teams across UK and US time zones.

TECH STACK

Frontend	Angular (v12–v22), TypeScript, RxJS, NgRx, Angular Material, PrimeNG, Tailwind CSS, SASS/SCSS, Bootstrap, Responsive Design (Grid/Flexbox), Standalone Components, Custom Component Libraries, Three.js, GSAP, Leaflet
Backend	Python (Flask), Node.js, NestJS, Codelgniter 3, Microservices, Swagger / OpenAPI
Databases	MySQL, PostgreSQL, MongoDB, Supabase, InfluxDB
Auth & Security	JWT, OAuth2 / OpenID Connect, Keycloak / Auth0, RBAC, REST API Security (CORS, rate limiting)
Testing & Quality	Jest, Karma / Jasmine, unittest (Python), ESLint / Prettier / Husky, SonarQube, Postman / Insomnia
Build & Deploy	Webpack, Vite, Nx (Monorepos), Docker, Vercel, CI/CD pipelines
Workflow	Git, Jira / Azure DevOps, Confluence / Notion, Figma, Agile / Scrum

WORK EXPERIENCE

Software Developer

NEORIS | Oct 2024 – Present | Murcia, Spain (Remote)

- Architected a modular Angular application using standalone components, reducing inter-module dependencies and improving long-term maintainability across multiple concurrent projects.
- Led a full Angular version migration from v15 to v20, modernising the codebase, adopting the latest framework APIs, and ensuring zero regression across existing functionality.
- Currently building UI screens on a client project integrating a proprietary component library, adapting and extending custom components to meet specific product and design requirements.
- Implemented sophisticated state management and real-time data streaming using RxJS and observables, enabling seamless async data flows across complex UI workflows.
- Built a shared component library that standardised UI patterns and accelerated development velocity across teams by eliminating duplicated effort.
- Developed responsive interfaces with Bootstrap ensuring consistent cross-device experiences; contributed to Agile ceremonies and led code reviews to maintain engineering standards.

Software Developer

CERN – European Nuclear Research Centre | Sep 2022 – Sep 2024 | Geneva, Switzerland

- Led frontend development of full-stack internal tools using Angular and Flask at one of the world's most demanding and internationally collaborative scientific environments.
- Migrated legacy Angular codebases to modern versions, implementing lazy loading that significantly reduced initial load times and improved scalability for high-traffic internal dashboards.
- Integrated Rundeck for automated job scheduling and execution, enabling operations teams to trigger and monitor workflows directly from the frontend — eliminating manual intervention.
- Authored a Python automation library that eliminated 15+ hours/week of manual processes across multiple teams, drastically cutting operational overhead.

Software Developer

Cloverdoc | Oct 2021 – Jul 2022 | Orihuela, Spain

- Built Python automation scripts using PyPDF2 to extract and validate invoice data, streamlining regional compliance checks and reducing manual review time.
- Automated ETL workflows for transforming and loading data into MySQL databases, achieving a 30% increase in data processing efficiency.
- Engineered robust error-handling frameworks that significantly reduced processing failures and improved overall system reliability.

INTERNSHIPS

Software Developer (Internship)

WE FISH | Mar 2020 – Jun 2020 | Murcia, Spain

- Developed RESTful APIs with Node.js and NestJS, integrating JWT authentication for secure access control across a quiz game platform.
- Designed efficient MongoDB schemas to support optimised API performance and scalable data management.

Software Developer (Internship)

ISOTADER | Mar 2021 – May 2021 | Murcia, Spain

- Built high-performance backend systems with Codelgniter 3 using MVC architecture; implemented dynamic forms with server-side validation to ensure data integrity.
- Developed responsive UIs with Bootstrap, ensuring cross-device compatibility.

PERSONAL PROJECTS

Traveling Memories · travelingmemories.eu · github.com/aleexst99/traveling-memories

- Full-stack travel journal app — Angular 19, Three.js (interactive 3D globe), Leaflet, Cloudinary image uploads, GSAP animations, CI/CD with GitHub Actions and 92 passing tests.

Core Investment · www.coreinvestment.eu · github.com/aleexst99/coreinvestment

- Personal finance app — React 18, TypeScript, Supabase (PostgreSQL), Zustand, Recharts. Features dashboard, transaction management, budget tracking and scheduled recurring expenses.

EDUCATION

Higher Technician in Multiplatform Application Development

[IES Alfonso X El Sabio](#) · 2021 · Java, JavaFX, .NET, MySQL, Python, Xamarin, Git

Higher Technician in Web Application Development

[IES José Planes, Murcia](#) · 2020 · HTML, CSS, JavaScript, jQuery, PHP, Vue, Symfony

LANGUAGES

Spanish — Native **English** — Professional proficiency (C1)

French — Intermediate (B1)

COURSES & CERTIFICATIONS

Python Advanced Course · CERN · May 2023

Security of Research Computing Infrastructures · CERN · Oct 2023

REFERENCE

Abel Cabezas Alonso — CERN · acabezas@cern.ch