Luciano David Chiroli

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Summary

Full Stack Developer | React, Angular, TypeScript, Node.js & NestJS

Full Stack Developer specialized in frontend with React, Angular, and TypeScript. Experience developing web applications in production environments, leading refactoring initiatives, technological modernization, and continuous improvement. Backend experience with Node.js and NestJS, designing REST APIs and working with SQL and NoSQL databases. Proven track record of results 150% client base growth, 25-30% performance optimizations, and development of critical features for investment objectives. University professor with technical leadership, mentoring, and team development skills.

Experience

Amelia-Hub, Frontend Developer

Barcelona, Spain (Remote)
Sep 2024 – Sep 2025
1 Year 1 Month

- Participated in the complete refactoring of the Amelia-Solar system, implementing monitoring and measurement capabilities for solar farms using React and TypeScript, facilitating client warranty compliance and helping the company achieve technical milestones for investment rounds.
- Contributed to 150% growth in client base (from 3-4 to over 10 clients) through development of UX/UI improvements with React and CSS3.
- Optimized Mapbox interactive map with TypeScript and React, achieving 25% reduction in load times through rendering optimization and efficient state management with Zustand.
- Designed and implemented advanced chart system for visualization of levels, deviations, and measurements using React, TypeScript, and HTML5 canvas object.
- Contributed to the development of Amelia-Viewer, a 3D visualization tool for LiDAR point clouds using React and TypeScript, implementing topographic measurement functionalities and comparative analysis of terrain differences.
- Implemented secure authentication with Auth0 and React.

UTN – Regional Mendoza, Frontend Development Professor

Mendoza, Argentina
Mar 2024 – Present
1 Year 11 Months

- Teach complete frontend development academic program: HTML5, CSS3, JavaScript ES6+, TypeScript, React, Angular, component architecture, responsive design, and web development best practices.
- Teach advanced state management with Redux Toolkit and Zustand, frontend design patterns, and performance optimization in React applications.
- Mentor full stack project development: frontend architecture with React, REST API implementation with Java Spring Boot, integration with PostgreSQL and MySQL databases.
- Conduct code reviews, teach debugging, testing, version control with Git and GitHub, and industry professional quality standards.

Smartraining Chile, Director of Development / Full Stack Developer

Santiago, Chile (Remote)
Sep 2023 – Oct 2024
1 Year 2 Months

- Led and participated in the development of a multiplatform web solution with React and TypeScript that runs natively in any browser (Chrome, Safari, Firefox) on desktop, mobile, and tablets, eliminating the need for native apps. Optimized 3D simulations with Three.js for consistent performance across iOS, Android, Windows, macOS, and Linux.
- Led and participated in the development of an authoring tool for visual creation of educational games: transformed manual JSON configuration process into a drag-and-drop web interface with specific fields and interactive object positioning. Implemented complex state management with Redux and real-time preview. This tool significantly boosted productivity, enabling delivery of more simulators with fewer personnel and reduced timelines.
- Defined technical roadmap, software architecture, code standards, and development best practices that enabled team and product scaling.
- Implemented secure JWT authentication with HttpOnly cookies in Node.js, developed educational 3D simulations with Three.js and React Three Fiber.
- Coordinated code reviews, technical meetings, and sprint planning.

Smartraining Chile, Full Stack Developer

Santiago, Chile (Remote)
Jun 2022 – Sep 2023
1 Year 4 Months

- Contributed to and drove the complete migration from Angular to React 18, improving development speed, maintainability, and scalability of the e-learning platform.
- Built reusable core components with React, TypeScript, Redux Toolkit for state management, and React Three Fiber for interactive 3D simulations.
- Optimized performance and load times through improvements in React rendering, memoization implementation, re-render optimization, and component architecture enhancement.
- Developed responsive multi-device design with CSS3, Flexbox, Grid, and Media Queries, ensuring consistent experience across desktop, tablet, and mobile.
- Implemented REST API integration, asynchronous state handling, and robust error management in React applications.

Education

Universidad Tecnológica Nacional (UTN), Higher Technician in Programming

Mendoza, Argentina
Aug 2024

Languages

Spanish: Native

English: Intermediate reading and writing - Basic speaking

Technologies

Frontend: React, Angular, TypeScript, JavaScript ES6+, HTML5, CSS3, TailwindCSS, Material UI, Responsive Design, Mapbox

Backend: Node.js, NestJS, Express, Java Spring Boot, RESTful APIs, JWT Authentication, Auth0

Databases: PostgreSQL, MySQL, MongoDB, SQL, NoSQL

State Management: Redux Toolkit, Zustand, Context API, State Management

3D & Visualization: Three.js, React Three Fiber, Data Visualization, WebGL, Canvas API

Mobile: React Native + Expo

Integrations: SCORM, LMS Moodle, API Integration, Third-party Services

AI & Automation: Claude, Gemini, Claude Code, AI Agents, Prompt Engineering

Tools & DevOps: Git, GitHub, Vite, Linux, Agile, Scrum

Testing & Quality: Code Review, Debugging, Testing, Performance Optimization