

CONTACT

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TECHNICAL SKILLS

Frontend
Next.js, React, Zustand, React Server Components, Tailwind, Sass, Web Accessibility, SSR/ISR, Framer Motion.

Backend
Node.js, Express, REST API, Auth (JWT, sessions), modular architecture, design patterns, backend testing (Mocha, Chai, SuperTest).

Full-stack MERN
MongoDB, Mongoose, React, Node, TypeScript, state management, performance optimization, webhooks, OAuth2, and layered architecture.

3D / Visualization
Three.js, geometry handling, materials, loaders, scene optimization, multi-layer interactivity.

Testing
Jest, Vitest, React Testing Library, Mocha, Chai, SuperTest.

Tools & DevOps
Git, GitHub Actions, basic CI/CD, Vercel, basic Docker, technical documentation, performance analysis.

ABOUT ME

Full-stack developer specialized in the MERN ecosystem, TypeScript, and Next.js, with experience in modular architecture, performance optimization, complex API integrations, and 2D/3D interactive interface development using Three.js. I have contributed to institutional platforms and startup environments, delivering scalable, maintainable, and product-driven solutions. I combine technical rigor, analytical capability, and clear communication with both technical and non-technical stakeholders.

EXPERIENCE

Ecuadorian Academy of Language

Full-stack Developer – Consultant (Jul 2021 – Sep 2024 / Mar 2025 – Present)

Technologies: JavaScript, TypeScript, Next.js, React, Zustand, Tailwind, Jest, React Testing Library.

- Comprehensive refactoring of legacy WordPress-based codebases, migrating critical components into a modular architecture built with React/Next.js.
- Development of institutional dynamic sites with emphasis on SSR/ISR, accessibility, and load-time optimization.
- Implementation of a global state-management model using Zustand, improving maintainability and reducing technical debt.
- Deployment in enterprise environments with version control, formal documentation, and private repositories.

Quito International Book Fair

Backend & Frontend Developer (Jun 2020 – Jul 2020 / Jun 2021 – Jul 2021)

Technologies: JavaScript, Node.js, Express, REST API, SOAP, PostgreSQL, Mocha, Chai, SuperTest.

- Integration of governmental services using REST APIs and legacy SOAP services, unifying validation criteria and data-handling logic.
- Design of static pages and mobile-first interfaces for registration, promotion, and event dissemination.
- Development of endpoints with unit and integration tests using Mocha + Chai + SuperTest to ensure robustness during high-traffic periods.
- Template and PaaS environment management for rapid deployments in cultural-event contexts.

Valeria Adalid – Digital Nutrition Services

Full-stack Developer (Dec 2023 – Mar 2024)

Technologies: JavaScript, TypeScript, Node.js, Express, React, MongoDB, Illustrator, Photoshop, Mocha, Chai, SuperTest.

- Integration of payment systems (PayPal, Stripe, Mercado Pago) and synchronization with external services through webhooks (MailChimp, Trello, WhatsApp API).
- Development of a secure backend with role-based authorization, encrypted sessions, and strict input validation.
- Design of intuitive React interfaces for appointment management, user administration, and notification automation.

Sustainable Furniture & Design Startup (Mexico City)

Frontend Developer / Interactive Experiences (Oct 2025 – Present)

Technologies: JavaScript, TypeScript, Next.js, React, Zustand, Three.js, Tailwind, Vitest, RTL.

- Development of a navigable prototype for a spatial-planning system, integrating dynamic catalogs, intelligent filters, and personalized search.
- Implementation of an interactive 2D editor and a modular 3D configurator using Three.js, with decoupled logic for geometry manipulation, materials, and model loading.
- Construction of an automated wizard for guided assistance in furniture selection and customization.
- Unit and component testing using Vitest + React Testing Library to ensure stability and controlled regression.

EDUCATION

Stephane Maarek | Ultimate AWS Certified Cloud Practitioner CLF-C02 [2025]

UNAM | B.S. in Computer Engineering [2022]

BUAP | B.A. in Linguistics [2020]

BUAP – School of Languages | English Certification Exam B2+ [2017]