Emmanuel Arenas Tolteca

FULL STACK DEVELOPER | FRONTEND SPECIALIST

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PROFESSIONAL SUMMARY

Web developer with over 4 years of professional experience building modern, scalable web applications. Specialized in integrating and optimizing APIs for secure and efficient systems, with a strong focus on frontend technologies like React, Next.js, TypeScript, and responsive design. Passionate about innovation, continuous learning, and technology education, fostering both personal and team growth. Committed to code quality and the development of user interfaces tailored to client needs.

AREAS OF EXPERTISE

Soft Skills:

Adaptability in dynamic environments **|** Fast learning **|** Multidisciplinary problem-solving **|** Strong team communication **|** Continuous self-improvement

Technical Skills:

Frontend: HTML5, CSS3, JavaScript (ES6+), TypeScript, Angular, React, Next.js, SASS, Bootstrap, Flask
Backend: Node.js, Express.js, FastAPI, SSR, RESTful APIs, GraphQL, MySQL, MongoDB, Docker
Tools: Git/GitLab/GitHub, AWS, Postman, Insomnia, VSCode
UI/UX Design: Adobe XD, Figma, Responsive Design
Other: Microservices architecture, Testing with Jest/Cypress

PROFESSIONAL EXPERIENCE

Centro de Cultura Digital – Full Stack Developer *Mexico City, Jan 2022 – Dec 2024*

Developed 20+ reusable and responsive components using React, Next.js, and TypeScript
Improved page load times by 20%–65% in key sections through lazy loading and caching strategies
Integrated scalable data processing and multimedia content delivery solutions
Implemented interactive animations with Vanilla JavaScript, SVGs, and Canvas for enhanced UX
Contributed to the UI redesign ensuring accessibility and device compatibility, including editable CMS tools

Dynamicore – Web Developer - *Mexico City, 2023*

Integrated encrypted API endpoints for card payments and gateway services
Built and maintained frontend interfaces for smooth, accessible payment workflows
Configured queries and programmed operations in MySQL databases
Helped create microservices for data processing, document generation, email notifications, and webhook handling using FastAPI and Python
Documented endpoints using OpenAPI and Swagger standards

Secretaría de Cultura – Web & Multimedia Developer - *Mexico City, 2021 – 2022*

Designed and implemented interactive UI using MUI and Bootstrap with a focus on performance and accessibility
Programmed real-time visual effects using JavaScript and C++ for multimedia events
Developed and deployed landing pages with user file upload and image processing features using Computer Vision algorithms

EDUCATION

Bachelor's Degree in Communications and Electronics Engineering
IPN – ESIME (2013 – 2018)

CERTIFICATIONS & COURSES

Backend Development with Node.js & Express.js
Frontend Developer Program
Advanced JavaScript Course
Web Design with CSS Grid & Flexbox
Responsive Design & Frontend Architecture
Full Database Course
Software Testing
Flask: Build Web Apps with Python
Docker: With Compose, Kubernetes & Swarm