

Edwar Martinez Vale

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Summary

Full-stack engineer with a strong front-end focus, specializing in real-time interfaces and high-performance UIs for IoT, embedded systems, and industrial analytics. Experienced with React, Angular, SolidJS, Astro, Flask, Node.js, and D3-based data visualizations. Proven track record leading front-end efforts, building reusable component architectures, and delivering performant, maintainable code under tight deadlines.

Skills

- Front-End: Angular, React, SolidJS, Astro, TypeScript, HTML, CSS, TailwindCSS, Unit Testing
- Data Visualization: D3.js, ApexCharts
- Back-End: Flask (Python), Express.js (Node.js), NestJS, PostgreSQL, TimescaleDB
- DevOps/Tools: Docker, Git

Education

Universidad Autónoma Juan Misael Saracho | Tarija , Bolivia

Computer Science | 12/2022

Languages

English: Intermediate

Spanish: Native

Experience

Bupunku | La Paz , Bolivia

Front End Developer | 01/2023 - Present

Key Achievements

- Built real-time dashboards for IoT and industrial analytics products using Angular and D3, improving data visualization and usability for operations teams.

- Developed a custom D3 chart library replacing ApexCharts, significantly improving FPS and enabling advanced customization across products.
- Built high-performance UIs for embedded systems using SolidJS, optimized for low-memory and latency-sensitive environments.
- Designed reusable UI components and data visualizations shared across multiple internal products.
- Optimized data-heavy views (charts, tables, filters) to improve responsiveness and rendering performance.
- Contributed to backend reporting APIs and CI/CD pipelines, supporting accurate KPI analytics and reliable deployments.