

# Elton Xavier Joseph Costa

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## Skills

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Database Design | System Design & Analysis | Javascript | Typescript | C | C++ | PHP | Python | HTML | CSS | MongoDB | MySQL | PostgreSQL | NodeJs | React.js | Next.js | Express | Three.js | Websockets | flask | AWS | GoogleCloudPlatform | Docker | Figma | Blender | Photoshop | PremierPro | React Native

## Work Experience

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### Club Mahindra Resort, Varca Beach - Goa (Intern)

#### Network Administrator/IT technician

March 2022

- Managed and administered hotel guest wireless networks for smooth operation.
- Replaced faulty equipment promptly to maintain uninterrupted service.
- Ensured daily operations remained uninterrupted by addressing any issues promptly.

### Hexcoderz, Vasco da Gama - Goa (Intern)

#### Project leader

September 2021

- Mastered UI/UX fundamentals, Figma, HTML, CSS, and JavaScript.
- Ensured the website's user experience was intuitive and engaging.

## Projects

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### LeafSync

- Developed a SQL database management tool using MySQL.js library in JavaScript.
- Achieved efficient CPU usage (0.3%) and optimized RAM usage (30-90MB) for enhanced performance.
- Utilized React.js for dynamic rendering and state-dependent views, ensuring a seamless user experience.
- Incorporated an in-built terminal for running SQL queries, enhancing user convenience and functionality.

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### Personal Image Storage

- Developed a CDN using the imgBB service for storing and retrieving media links.
- Enabled image/gif sharing and loading for users through the CDN.
- Implemented functionality where upon upload, the link to the file is returned to the user.
- Stored file information for easy retrieval and management within the CDN.

[Live▶](#)

### Digit Classifier using Machine Learning

- Integrated the Flask server with a React frontend featuring a drawing canvas for user input.

- Trained the AI model on a custom dataset tailored for digit classification.
- Ensured seamless communication between the frontend and backend for real-time digit recognition.
- Enabled users to draw digits on the canvas, with the AI model predicting the drawn digit accurately.

[Live▶](#)

### **API (MISTRAL) LLM running on local-CPU**

Contributed to <https://github.com/katanaml/llm-mistral-invoice-cpu> (OpenSource)

- Integrated MISTRAL LLM via API to streamline communication with other libraries.
- Enhanced accessibility and ease of use by replacing CLI (Command Line Interface) with API.
- Facilitated cross-platform integration and asynchronous operations through the API.
- Improved user experience by enabling asynchronous operations and cross-platform compatibility.

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### **Real-time Pixel Art Canvas**

- Real-time Pixel Drawing Canvas application synchronized across connected clients.
- Frontend built with React; backend powered by Node.js, Express, and WebSocket.
- Changes made by one user are instantly communicated to all connected clients.

[Live▶](#)

## **Education**

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### **Bachelor's Degree in Computer Engineering**

Don Bosco College of Engineering

**2025**

### **Diploma in Computer Engineering**

Agnel Polytechnic Verna

**2022**

## **Volunteer Experience**

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### **Incarnate (Event- leader)**

- Spearheaded a successful art competition as the leader of the department, encouraging past participants to join and fostering a sense of community.
- Implemented streamlined organization and efficient registration tracking systems to ensure smooth operations throughout the event.
- Demonstrated leadership skills in coordinating the event and fostering a positive and engaging environment for participants and judges alike.