Elton Xavier Joseph Costa

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Skills

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 **|** GCP **|** Docker **|** Figma **|** Blender **|** Photoshop **|** PremierPro **|** React Native **|** Data Structures

Work Experience

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.

YUVA panaji Website - Goa (Fullstack)
Project leader
April 2024
- Gathered requirements and presented the client with a sound and budget friendly Plan
- Worked closely with the client to perfect the clients vision for their website
- Used a much more newer and better stack (Node) to deliver a faster and smoother UI/UX experience and better Indexing features for SEO like SSR and Data Caching (previously ran on wordpress)
- Implemented Dashboard for the Client which allowed them to post new events and photos and manage them all within the Dashboard

Projects

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.
  Download▸

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 ———————————————————————————

Bachelor's Degree in Computer Engineering
Don Bosco College of Engineering
2025
Diploma in Computer Engineering
Agnel Polytechnic Vern
2022
High Secondary Education
Loyola High School, Margao
2018

Extra

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.

Hackathon (Implemented Axon)
- Domain Assisted learning
- Allows you to submit material to be learnt by Axon, then quizzes you on the study material to benchmark how much you have learnt

Game Development(implemented space invaders using Scratch)
- Won 3rd place at a game making competitions
- Implemented 6 stages + 1 boss stage
- Leaderboard calculates score

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