

Elton Xavier Joseph Costa

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[Github](#) | [Elton costa](#) | [Linkedin](#)

Work Experience

Club Mahindra Resort, Varca Beach - Goa (Intern)

improved and overhauled hotel guest wireless networks for smooth operation.

Jun 2022 - Jul 2022

Network Administrator

Hexcoderz, Vasco da Gama - Goa (Intern)

Developed proficiency in UI/UX fundamentals, Figma, HTML, CSS, and JavaScript.

Sep 2021 - Nov 2021

Project lead

YUVA panaji Website - Goa (Fullstack, Developer)

Led the design and development of the website

Designed and integrated a dashboard to manage content on the website

Apr 2024 - May 2024

Project lead

Projects

LeafSync

- Engineered a SQL database management tool which allowed me to make and view updates to my Database in real time, ensuring a Seamless user experience.
- Achieved efficient CPU usage (0.3%) and optimized RAM usage (30-90MB) for enhanced performance.
- Rendering and state-dependent views loads in an instant (90% faster then something like PhpMyAdmin)

<https://github.com/ryzxxn/LeafSync/>

Personal Image Storage

- Implemented Images/Gifs storage and delivery using the imgBB API for over 10+ users.
- Unlimited Storage, upload up to 32mb/image enough for 90% of images captured by modern camera devices.
- Extended it Privacy and security by implementing Google Authentication

<https://pis.eltoncosta.xyz/>

API (MISTRAL) LLM running on local-CPU: <https://github.com/katanaml/llm-mistral-invoice-cpu> (OpenSource)

- Integrated accessibility and ease of use by replacing CLI (Command Line Interface) with API Interface, in around 30 lines of code(including error handling).

Real-time Pixel Art Canvas

- Real-time Pixel Drawing Canvas application synchronized across connected clients with latency less than 6ms.
- Canvas size(50x50) 2500px all synced using Websocket by only updating changed pixel reducing network bandwidth by 99%

<https://pixel-io.netlify.app/>

Skills & Other

Languages C/C++, Javascript, HTML, CSS, SQL, Java, Typescript, Python, PHP, SQL, NoSQL, Shell

Technical React.js, Next.js, Express, Three.js, Websockets, flask, AWS, Google Cloud , Docker, Figma, Blender , Photoshop, PremierPro, React Native, Data Structures, AI, Machine Learning, LLM, FastAPI, CLI, CI/CD, Github, Linux, Latex, Data Analysis, Database Design, MonqoDB, System Design, Firebase, Auth\

Soft-skills Leadership, Open, Public Speaking, Prioritization, Analytical Reasoning

Achievements

Hackathon (Axon)

- Enables users to submit Study material to generate a quiz of minimum 10 questions, this allows the user to benchmark themselves to know how much they have studied, 10-15 users found this useful.
- Leveraged GPU Acceleration to speed up response time by 88% (from 50s - 6s)

Game Development (reimagined space invaders using Scratch)

- Achieved 3rd place at a game making competitions
- 6 Levels + 1 boss Level

Education

Bachelor's Degree in Computer Engineering

Don Bosco College of Engineering

Apr 2022 - May 2025

Fatorda, Goa

CGPA: 7.00

Diploma in Computer Engineering

Agnel Polytechnic

Jan 2019 - mar 2022

Verna, Goa

CGPA: 8.00

Extra Curricular

- Inter-School art competition : Secured 1st place.
- Organized Incarnate an inter-College, School, Diploma Artwork competition,45+ students participated.