Bala Surya S

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SUMMARY

Passionate Web Developer and AI Enthusiast with experience in building scalable web applications and AI-integrated projects. Skilled in React.js, Next.js, Firebase, and Python. Strong problem-solving, adaptability, and leadership abilities demonstrated through projects, internships, and roles such as Vice Chairperson of IEEE Student Branch and Founder of Xyndrix. Seeking opportunities to contribute to innovative projects in Web Development and AI.

EDUCATION

Karpagam Academy of Higher Education   Coimbatore, India
B.E. in Computer Science and Engineering (CSE)   *Sep 2023 – Present*

TECHNICAL SKILLS

Programming Languages: Python, C++, Javascript

Frameworks Libraries: React.js, Next.js, Node.js, Django (basic), Python Libraries (NumPy, Pandas, OpenCV)

Web Development Tools: Git, GitHub, VS Code

Databases Cloud: Firebase, MongoDB, MySQL, AWS (basic)

Specialized Skills: Web Application Development, AI Integration, Real-Time Chat Systems, Web Scraping

PROJECTS

X-ray Image Analysis   01/2025 – 03/2025
Deep Learning Project   *Python, TensorFlow, OpenCV*
- Built a system for medical image analysis to detect anomalies in X-ray images.
- Applied Convolutional Neural Networks (CNNs) for feature extraction and classification.
- Improved diagnostic accuracy using data preprocessing and augmentation.

Face Liveness Detection for Aadhaar Authentication   07/2025 – 08/2025
Computer Vision , Security Project   *React.js, Face API, Python, Bootstrap*
- Developed a web-based facial authentication system with liveness detection to ensure secure Aadhaar verification.
- Integrated Face API for real-time facial recognition, spoof detection, and authentication.
- Implemented as a Chrome Extension to enable users to log in securely without needing passwords.

Surya Coconuts – E-Commerce Platform   07/2025 – 07/2025
Full-Stack Web Development   *Next.js, Firebase, Hero UI, Web Scraping*
- Designed an e-commerce platform for selling tender and copra coconuts with real-time price updates.
- Integrated admin dashboard for order management, billing, and live coconut price scraping.
- Implemented customer authentication , order tracking using Firebase.

CSE Meta Project Portal   06/2025 – 07/2025
Full-Stack Web Application   *Next.js, Django, Tailwind CSS, Three.js*
- Designed a web-based portal to highlight the Metaverse Students Community projects and departmental achievements
- Provides a structured space for students to upload project details, GitHub/web links, images, and hackathon accomplishments.
- Serves as a centralized platform for the department to promote innovation, collaboration, and recognition of outstanding work.

EXPERIENCE

Frontend and AI Developer Intern – Xarlex   March 2025 – July 2025
DeepMind   *Coimbatore, India*
- Contributed to the development of responsive web applications using React.js and Next.js.
- Worked on AI model integration to add intelligent features into existing products.
- trengthened skills in problem-solving, cloud deployment, and teamwork through real-world project contributions.

ENTREPRENEURSHIP TRAINING

Founder, Xyndrix   June 2025 – Present

- Founded a student-driven startup initiative focused on web, cloud, and AI-based solutions.
- Presented the vision during orientation events, inspiring peers to explore entrepreneurship and innovation.
- Led a core team in building prototypes, integrating AI with full-stack development, and fostering collaboration.

LEADERSHIP / EXTRACURRICULAR

Vice Chairperson — IEEE Student Branch   July 2024 – Present
Karpagam Academy of Higher Education   *Coimbatore, India*
As Vice Chairperson at KAHE, I lead technical workshops, hackathons, and student development programs while collaborating with faculty and peers to expand IEEE membership and represent the branch at inter-college events. t inter-college and IEEE events to enhance its visibility and impact.

CERTIFICATIONS

- HTML, CSS, JavaScript
- React.js
- Django