

Bala Surya S

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SUMMARY

Innovative Web Developer and AI Entrepreneur with a strong leadership mindset, serving as the Founder CEO of Vygron. Experienced in building scalable, real-world web and AI-driven solutions for clients and startups. Proficient in React.js, Next.js, Firebase, and Python, with hands-on involvement in end-to-end product development. Led and organized national-level technical events and hackathons, demonstrating strong project management and sponsorship leadership. Passionate about emerging technologies and focused on delivering impactful, future-ready digital solutions.

EDUCATION

Karpagam Academy of Higher Education
B.E. in Computer Science and Engineering (CSE)

Coimbatore, India
Sep 2023 – Present

TECHNICAL SKILLS

Programming Languages: Python, C++, Javascript

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

Web Development Tools: Git, GitHub, VS Code

Databases Cloud: Firebase, MongoDB, MySQL, AWS

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

PROJECTS

X-ray Image Analysis

Deep Learning Project

01/2025 – 03/2025

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

Computer Vision, Security Project

07/2025 – 08/2025

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

Full-Stack Web Development

07/2025 – 07/2025

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.

Karupa Foundation Website

Full-Stack Web Application

09/2025 – 10/2025

Next.js, Django, Tailwind CSS, PostgreSQL

- Developed the official website for **Karupa Foundation Education and Research Centre**, a government-recognized organization.
- Designed and implemented modules to showcase foundation initiatives, educational programs, and research activities.
- Built an interactive and responsive interface to streamline information access and improve outreach efficiency.

EXPERIENCE

Frontend and AI Developer Intern – Xarlex DeepMind

March 2025 – July 2025
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.
- Strengthened skills in problem-solving, cloud deployment, and teamwork through real-world project contributions.

ENTREPRENEURSHIP TRAINING

Founder & Chief Executive Officer (CEO), VYGRON

June 2025 – Present

- Founded VYGRON, a student-led startup focused on solving real-world problems through technology.
- Identified real-world challenges and transformed them into practical, user-focused products.
- Led end-to-end product development from idea to deployment using web, cloud, and AI technologies.
- Built and managed a core team, promoting collaboration, ownership, and innovation.
- Presented product vision and impact at campus events, encouraging entrepreneurship and problem-solving.

LEADERSHIP / EXTRACURRICULAR

Vice Chairperson – IEEE Student Branch Karpagam Academy of Higher Education

April 2025 – Present
Coimbatore, India

- Organized and led multiple technical workshops, hackathons, and seminars to promote hands-on learning and innovation among students.
- Collaborated with faculty and peers to expand IEEE membership and increase active student participation.
- Guided students in research, project development, and professional growth through IEEE initiatives.
- Represented the IEEE Student Branch at inter-college and IEEE events, enhancing the visibility and reputation of the chapter.

Lead – Metaverse Students Association Metaverse Students Community

Dec 2024 – Present
Karpagam Academy of Higher Education

- Serving as one of the core leads of the Metaverse Students Community – a student-driven club focused on fostering innovation and technical excellence.
- Lead and guide projects in diverse domains including Full-Stack Development, Artificial Intelligence, Machine Learning, Augmented Virtual Reality, and Cybersecurity.
- Spearheaded the development of a 3D-animated community website using Next.js, Django, and Three.js to showcase student innovations.
- Mentored students in applying modern technologies to real-world problems and encouraged collaborative project-based learning.
- Represented the club in various national-level hackathons, promoting teamwork, creativity, and technical excellence.

Lead Organizer & Sponsorship Head – HackSprint 2.0 2nd National-Level 36-Hour Hackathon

Jan 2026
Karpagam Academy of Higher Education

- Served as the Lead Organizer and Sponsorship Head for HackSprint 2.0, a 2nd National-Level 36-hour hackathon organized by the Metaverse Students Association under the Department of Computer Science and Engineering.
- Led end-to-end planning, execution, and coordination of the hackathon, ensuring smooth operations across all phases of the event.
- Secured and managed sponsorships and partnerships, coordinating with industry partners and cloud service providers.
- Coordinated with faculty members, judges, mentors, and organizing teams to deliver a high-impact national-level technical event.
- Managed participant onboarding, problem statements, workshops, and final evaluations for teams from multiple institutions.