

# Bala Surya S

9597075831 | balasurya9597@gmail.com | linkedin.com/in/balasurya06 | github.com/Balasurya-06

## 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

<b>Karpagam Academy of Higher Education</b> <i>B.E. in Computer Science and Engineering (CSE)</i>	Coimbatore, India Sep 2023 – Present
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## 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

<b>X-ray Image Analysis</b> <i>Deep Learning Project</i>	01/2025 – 03/2025 <i>Python, TensorFlow, OpenCV</i>
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- 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.

<b>Face Liveness Detection for Aadhaar Authentication</b> <i>Computer Vision , Security Project</i>	07/2025 – 08/2025 <i>React.js, Face API, Python, Bootstrap</i>
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- 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.

<b>Surya Coconuts – E-Commerce Platform</b> <i>Full-Stack Web Development</i>	07/2025 – 07/2025 <i>Next.js, Firebase, Hero UI, Web Scraping</i>
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- 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.

<b>Karupa Foundation Website</b> <i>Full-Stack Web Application</i>	09/2025 – 10/2025 <i>Next.js, Django, Tailwind CSS, PostgreSQL</i>
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- 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

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<b>Frontend and AI Developer Intern – Xarlex</b> <i>DeepMind</i>	March 2025 – July 2025 Coimbatore, India
<ul style="list-style-type: none"><li>Contributed to the development of responsive web applications using React.js and Next.js.</li><li>Worked on AI model integration to add intelligent features into existing products.</li><li>strengthened skills in problem-solving, cloud deployment, and teamwork through real-world project contributions.</li></ul>	

## ENTREPRENEURSHIP TRAINING

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<b>Founder &amp; Chief Executive Officer (CEO), VYGRON</b>	June 2025 – Present
<ul style="list-style-type: none"><li>Founded VYGRON, a student-led startup focused on solving real-world problems through technology.</li><li>Identified real-world challenges and transformed them into practical, user-focused products.</li><li>Led end-to-end product development from idea to deployment using web, cloud, and AI technologies.</li><li>Built and managed a core team, promoting collaboration, ownership, and innovation.</li><li>Presented product vision and impact at campus events, encouraging entrepreneurship and problem-solving.</li></ul>	

## LEADERSHIP / EXTRACURRICULAR

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<b>Vice Chairperson – IEEE Student Branch</b> <i>Karpagam Academy of Higher Education</i>	April 2025 – Present Coimbatore, India
<ul style="list-style-type: none"><li>Organized and led multiple technical workshops, hackathons, and seminars to promote hands-on learning and innovation among students.</li><li>Collaborated with faculty and peers to expand IEEE membership and increase active student participation.</li><li>Guided students in research, project development, and professional growth through IEEE initiatives.</li><li>Represented the IEEE Student Branch at inter-college and IEEE events, enhancing the visibility and reputation of the chapter.</li></ul>	

<b>Lead – Metaverse Students Association</b> <i>Metaverse Students Community</i>	Dec 2024 – Present Karpagam Academy of Higher Education
<ul style="list-style-type: none"><li>Serving as one of the core leads of the Metaverse Students Community – a student-driven club focused on fostering innovation and technical excellence.</li><li>Lead and guide projects in diverse domains including Full-Stack Development, Artificial Intelligence Machine Learning, Augmented Virtual Reality, and Cybersecurity.</li><li>Spearheaded the development of a 3D-animated community website using Next.js, Django, and Three.js to showcase student innovations.</li><li>Mentored students in applying modern technologies to real-world problems and encouraged collaborative project-based learning.</li><li>Represented the club in various national-level hackathons, promoting teamwork, creativity, and technical excellence.</li></ul>	

<b>Lead Organizer &amp; Sponsorship Head – HackSprint 2.0</b> <i>2nd National-Level 36-Hour Hackathon</i>	Jan 2026 Karpagam Academy of Higher Education
<ul style="list-style-type: none"><li>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.</li><li>Led end-to-end planning, execution, and coordination of the hackathon, ensuring smooth operations across all phases of the event.</li><li>Secured and managed sponsorships and partnerships, coordinating with industry partners and cloud service providers.</li><li>Coordinated with faculty members, judges, mentors, and organizing teams to deliver a high-impact national-level technical event.</li><li>Managed participant onboarding, problem statements, workshops, and final evaluations for teams from multiple institutions.</li></ul>	