

Professional Summary :

Software Engineer skilled in Next.js, React, Firebase, and AI/ML, with hands-on experience in developing full-stack web applications, deploying cloud-based solutions, and applying machine learning to solve real-world problems. Strong in problem-solving, debugging, and algorithmic thinking, with a proven ability to build scalable, user-centric applications.

Areas of Interest :

- Web Development: React, Next.js, Firebase, Tailwind CSS
 - Computer Vision: OpenCV, MediaPipe, YOLO
 - Machine Learning & AI: Deep Learning, Model Deployment, Image Analysis, (NLP),Text Classification
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Education :

- B.E./B.Tech in Computer Science and Engineering
Dr. Mahalingam College of Engineering and Technology (MCET), Pollachi, Coimbatore
Expected Graduation: July 2027 | CGPA: 8.67
 - HSC — Srinivasa Vidhyalaya Matriculation Higher Secondary School, Udumalaipet , March 2023 | 539/600 (89.3%)
 - SSLC — Srinivasa Vidhyalaya Matriculation Higher Secondary School, Udumalaipet , March 2021
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Technical Skills :

- Programming Languages: Java, Python, C
- Frameworks & Libraries: React, Next.js, Tailwind CSS, TensorFlow, PyTorch
- Databases: Firebase Firestore, SQL (basic)
- Cloud Platforms: Firebase, Vercel

Soft Skills :

- Problem-Solving: Strong analytical thinking, debugging, and algorithmic coding (LeetCode practice)
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Projects :

Fertilizer Recommendation Web Application

- Built an AI-powered fertilizer recommendation web app using Next.js and Firebase.
- Integrated image upload, real-time database, and analytics for better performance.
- Deployed on Vercel for fast, reliable global access.

Curl counter using OpenCV

- Built a computer vision-based exercise counter using OpenCV and MediaPipe to track push-ups, squats, and bicep curls.
- Enabled real-time webcam tracking for accurate pose detection and movement counting.
- Delivered an 80% functional prototype demonstrating reliable motion analysis.

Traffic Management System

- Developed an OpenCV-based system to detect opposite lane violations and mobile phone use while driving.
 - Integrated live CCTV feeds for real-time detection of unsafe driving behaviors.
 - Built an 80% functional prototype highlighting its potential for improving road safety.
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Internships:

Boredom LLP Tecchnology ,Bangalore.

May 2025 – July 2025

- Developed responsive web pages using HTML, CSS, and JavaScript for seamless cross-device performance.
 - Built interactive front-end components with React to enhance user experience.
 - Used Firebase for real-time data handling and secure authentication.
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Certifications:

- Completed Natural Language Processing (NLP) Certification from PrepInsta Prime.