

Mahesh S

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EDUCATION

Vidya Vikas Institute of Engineering and Technology
Bachelor of Engineering in Computer Science, CGPA: 7.9/10

Nov. 2023 – April 2027
Mysuru, India

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python

Frameworks & Libraries: React, Next.js, Node.js, Express

Databases: PostgreSQL, MongoDB

Developer Tools & Platforms: Git, GitHub, AWS, Redis, Vercel

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, SQL

EXPERIENCE

Full-Stack Developer Intern

Jan 2026 – Mar 2026

NexEV Solutions Private Limited

Remote

- Built **backend services** using **Node.js, Express, PostgreSQL, and Prisma**, developing map-based APIs and implementing **role-based access control (RBAC)** for secure authorization.
- Developed reusable frontend components using **React** and **Tailwind CSS**, delivering responsive and maintainable interfaces for the company's web platform.
- Built a cross-platform mobile application using **Expo** and integrated **PostgreSQL-backed authentication** for secure onboarding, login, and session management.

PROJECTS

Vendary | *Next.js, React, Node.js, PostgreSQL, Prisma, Redis, NextAuth, Stripe, Razorpay*

Live | GitHub

- Designed and developed a **production-grade full-stack web application** supporting **50+ products**, persistent carts, and end-to-end checkout workflows.
- Implemented **email-based authentication and authorization** using NextAuth, handling **account verification, password resets, and token expiry** across multiple user flows.
- Integrated **Stripe and Razorpay payment gateways**, processing **test and live transactions** with order creation and post-payment state handling.
- Applied **Redis caching** for frequently accessed data and handled **production deployment tasks** including schema migrations, environment setup, and live issue resolution.

Mycaption-me | *Next.js, React, Node.js, AWS, Redis, FFmpeg WASM*

Live | GitHub

- Built a **cloud-native full-stack video processing platform** handling video uploads of up to **~500MB** per file.
- Implemented **direct-to-cloud uploads using AWS S3 pre-signed URLs**, reducing backend load by avoiding server-side file handling.
- Integrated **AWS Transcribe** to generate **time-coded transcripts** and used **FFmpeg WASM client-side** to render subtitles without server-side compute.
- Enforced **rate limiting using Redis** with configurable request limits per IP to control usage and prevent abuse.

AquaBov | *React, Tailwind CSS, Python, Flask, YOLOv8, MongoDB, Gemini AI*

Live | GitHub

- Developed an **AI-powered livestock platform** to identify cow breeds from images and assist farmers with breeding and nutrition decisions through a web interface.
- Developed, trained, and deployed a **YOLOv8-based computer vision model** using **4,500+ labeled images**, serving breed predictions through **REST APIs** with confidence scores for application-level decision making.
- Integrated **Gemini AI** to generate **top 5 breed compatibility recommendations** and developed a **multilingual chatbot (Kannada, English)** for real-time farmer queries.

ACHIEVEMENTS & LEADERSHIP

- Core Team Member at Google Developer Groups (On Campus)**, actively organized and led technical workshops while driving peer-based learning across campus.
- Won multiple hackathons as a team lead**, building full-stack and AI-driven solutions under tight timelines.