Sarweshwar

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SUMMARY

I have led impactful projects including developing the complete backend for a college-funded Alumni Portal, building an AI-based X-ray diagnostic tool, and creating an automated pest-detection drone. Alongside these, I have also worked on gesture-driven games and other full-stack applications. As a motivated Computer Science undergraduate, I bring strong hands-on experience in backend development, computer vision, and full-stack web technologies. My technical expertise includes Python, Django REST Framework, React.js, Next.js, MediaPipe, and YOLOv8. Beyond academics, I am actively engaged in hackathons—participating in over 10, reaching the finals in 2, and winning selection in 1. I am now seeking a Software Engineering internship to apply my skills, gain industry exposure, and contribute to innovative solutions.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript (ES6+), SQL, C++

Frameworks & Backend: Django, Django REST Framework, Node.js (basic)

Frontend & UI: React.js, Next.js, Vite, TailwindCSS

AI & Computer Vision: OpenCV, MediaPipe, YOLOv8, TensorFlow.js

Tools & Deployment: Git, GitHub, Docker, Nginx, Ubuntu Server

Databases: SQLite, PostgreSQL

PROJECTS

Back-End Developer — KAHE Alumni Portal (College-Funded)   Mar 2025 – Aug 2025
Karpagam Academy of Higher Education, Remote   *Django, DRF, PostgreSQL, Supabase*
  • Delivered a fully functional alumni portal with Members, Events, Jobs, Chat, Maps, and News modules.
  • Authored REST APIs with Django REST Framework, supporting both web and mobile clients.
  • Implemented JWT authentication, role-based access control, and Supabase file storage.
  • Produced OpenAPI documentation and improved reliability with validation, sanitization, and CI checks.

AI X-ray Fracture Detection Web App   Jan 2025 – Apr 2025
Computer Vision Project   *YOLOv8, PyTorch, Django, OpenCV*
  • Trained a custom YOLOv8 model on annotated X-ray datasets for accurate fracture detection.
  • Built a Django REST API to process uploads and return annotated diagnostic images.
  • Applied OpenCV to generate bounding-box overlays on detected fractures.

Automated Pest-Detection Drone (MSME-Funded)   Jul 2024 – Dec 2024
Precision Agriculture Project   *CNN, Python, Drone Integration*
  • Developed a CNN model to identify pest-affected crop regions from aerial drone images.
  • Optimized the model for lightweight, real-time inference on drones.
  • Collaborated on integrating the model into a drone-based precision agriculture system.

Smart-Expenses Web App   Mar 2024 – May 2024
Personal Finance Tracker   *React.js, Django, PostgreSQL, Chart.js*
  • Built a finance tracking system with CRUD operations, budgets, and recurring entries.
  • Implemented an analytics dashboard with time-series charts and budget alerts.
  • Architected a full-stack solution using React, Django, PostgreSQL, and Chart.js.

EXPERIENCE

Fullstack & AI Intern May 2024 – Jul 2024
Xarlex *Remote*
- Contributed as a fullstack developer by building web modules with React.js, Next.js, and Django REST Framework.
- Designed and integrated REST APIs for data exchange between frontend and backend services.
- Worked on AI integration tasks, including computer vision pipelines and lightweight model deployment.
- Collaborated in an agile team, contributing to end-to-end product development and feature delivery.

EDUCATION

Karpagam Academy of Higher Education (KAHE) Coimbatore, India
B.E. in Computer Science and Engineering *Aug 2023 – May 2027 (Expected)*

LEADERSHIPS

- Chairperson, IEEE Student Branch — Karpagam Academy of Higher Education (Apr 2025 – Present)
- Event Head, GeeksforGeeks Student Chapter — Karpagam Academy of Higher Education (2025 – Present)
- Member, Metaverse Students Association (2024 – Present)

ENTREPRENEURSHIP

- Co-Founder, Xyndrix (2025 – Present) — A software solutions company delivering full-stack web applications, AI-driven systems, and custom enterprise tools.