

KARTHIK U RAO

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Objective

Full-stack developer with AI experience, eager to leverage technical and collaborative strengths in a dynamic engineering team.

Education

Master of Computer Application, Dayananda Sagar College Of Engineering

Expected Aug 2025

Relevant Coursework: Research Methodology, Blockchain.

Bachelor of Computer Application, DVS College of Arts, Science and Commerce

Jun 2023

Relevant Coursework: DBMS, Operations Research, Cloud Computing

Experience

Software Engineer Intern, Gonagoor Technology Solutions, Bengaluru, IN

Nov 2024 – Jan 2025

- Led a 4-member team in developing CareCrew, an Android volunteer networking app, overseeing Full-stack development, RESTful API development, and Firebase integration.
- Integrated Google Maps API to display and cluster 100+ volunteer hotspots, improving map performance and coverage by 50%.
- Implemented real-time chat through Firebase Cloud Messaging and skill-based matching algorithms, increasing volunteer match efficiency by 40%.
- Partnered with QA to reduce the app crash rate by 30% through automated testing and CI/CD pipeline enhancements.

Skills

Technical Skills: Java, PHP, JavaScript, HTML/CSS, SQL, TensorFlow, OpenCV, Firebase, Django

Soft Skills: Problem Solving, Critical Thinking, Adaptability, Teamwork

Artistic Skills: Singing, Anchoring, Public Speaking

Certifications

Google Data Analytics Professional Certificate | Coursera: Y589RHFDZQPH | 2023

Applied Python and SQL to analyze 100K+ data records, driving a 70% growth in analytics insights.

Google Cybersecurity Professional Certificate | Coursera: EH7URUUQFXTY | 2024

Completed modules in network defense, risk assessment, and cryptography; achieved 65% accuracy in threat simulations.

Projects

- **E-commerce Web Application (NonBeverages)** — Scalable full-stack platform (PHP, JavaScript, MySQL) with user authentication, payment gateway, and admin dashboard.
 - Engineered RESTful APIs and secure session management for 2K+ monthly active users.
 - Conducted A/B testing on UI components, increasing the order volume by 35%.
- **Moodify: Emotion-Based Music Recommendation System ([GitHub](#))** — AI-driven mobile app (TensorFlow, OpenCV, React Native).
 - Processed 50K+ facial images for emotion detection, achieving 57% accuracy on FER2013.
 - Integrated Spotify API for personalized playlists; 4.5-star app rating.
 - Optimized model inference to ~200 ms/frame for seamless feedback.
- **Deepfake Detection System ([GitHub](#))** — ResNeXt CNN+LSTM pipeline for video-based fake detection.
 - Augmented and pre-processed 100K+ video frames.
 - Achieved 85% accuracy and 0.92 AUC in the FaceForensics ++ / CelebDF datasets.
 - Built a Django-based web interface for batch/live analysis.
- **CareCrew: Volunteer Social Network App ([GitHub](#))** — Android app (Java, Firebase) to connect volunteers by skill and location.
 - Integrated Firebase Auth, Real-time DB, Push Notifications, and Offline Caching.
 - Clustered 100+ hotspots, reducing API calls by 60% and increasing engagement.