

# KARTHIK U RAO

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## OBJECTIVE

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

## EDUCATION

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**Master of Computer Application**, Dayananda Sagar College Of Engineering Expected Aug 2025  
Relevant Coursework: Technical Writing, Research Methodology, Blockchain.

**Bachelor of Computer Application**, DVS College of Arts, Science and Commerce Completed Jun 2023  
Relevant Coursework: DBMS, Operations Research, Cloud Computing

## EXPERIENCE

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**Software Engineer Intern**, Gonagoor Technology Solutions, Bengaluru, IN Nov 2024 – Jan 2025

- Led a 5-member team in developing CareCrew, an Android volunteer networking app, overseeing UI/UX design, 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 via Firebase Cloud Messaging and skill-based matching algorithms, boosting volunteer-match efficiency by 40%.
- Partnered with QA to reduce app crash rate by 30% via automated testing and CI/CD pipeline enhancements.

## SKILLS

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

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

**Artistic Skills:** Singing, Anchoring, Public Speaking

## CERTIFICATIONS

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**Google Data Analytics Professional Certificate** | Coursera: Y589RHFDZQPH | 2023 | Shivamogga, IN  
Applied Python and SQL to analyze 100K+ data records, driving a 70% growth in analytics insights.

**Google Cybersecurity Professional Certificate** | Coursera: EH7URUUQFXTY | 2024 | Bengaluru, IN  
Completed modules in network defense, risk assessment, and cryptography; achieved 65% accuracy in threat simulations.

## PROJECTS

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- **E-commerce Web Application (Non-Alcoholic Beverages)** — Developed a scalable full-stack platform (PHP, JavaScript, MySQL) featuring user authentication, payment gateway integration, and an admin dashboard.
  - Engineered RESTful APIs and secure session management, serving 2K+ monthly active users.
  - Conducted A/B testing on responsive UI components, increasing order volume by 35%.
- **Moodify: Emotion-Based Music Recommendation System** ([GitHub](#)) — Architected an AI-driven mobile app (TensorFlow, OpenCV, React Native) for real-time music recommendations.
  - Processed 50K+ facial images for emotion detection, achieving 57% accuracy on FER2013.
  - Integrated Spotify API to deliver personalized playlists; achieved a 4.5-star app rating.

- Optimized model inference to 1200 ms per frame for seamless user feedback.
- **Deepfake Detection System** ([GitHub](#)) — Built a ResNeXt CNN+LSTM pipeline for video deepfake detection.
  - Augmented and preprocessed 100K+ video frames to enhance model robustness.
  - Achieved 85% classification accuracy and 0.92 AUC on FaceForensics++ and Celeb-DF datasets.
  - Deployed a Django-based web interface supporting batch and live video analysis.
- **CareCrew: Volunteer Social Network App** ([GitHub](#)) — Designed and implemented an Android app (Java, Firebase) to connect volunteers by skills and location.
  - Integrated Firebase Auth and Realtime Database for secure user management.
  - Clustered 100+ hotspots, reducing API calls by 60% and improving performance.
  - Added push notifications and offline caching, increasing daily active users by 50%.