# SOMA KARTHIKESH

Hyderabad, India

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## SUMMARY

Entry level Software Development Engineer with hands on experience in Java and full stack development. Strong foundation in object oriented programming, data structures, and building scalable, real world applications.

## SKILLS

**Programming Languages:** Java, C, Python
**Frameworks/Libraries:** MERN Stack (MongoDB, Express.js, React.js, Node.js), Java Swing
**Developer Tools:** Git, MySQL, Docker
**Technical Concepts:** Data Structures & Algorithms, Object Oriented Programming, RESTful APIs, SDLC

## EXPERIENCE

**Software Development Engineer Intern**                                   Sep 2025 – Nov 2025
*Aratek Innovation Pvt. Ltd, Hyderabad*

- Developed a Java Swing and AWT based GUI, improving usability and performance by 30%.
- Implemented MVC based UI components, increasing user interaction efficiency by 25%.
- Collaborated with cross functional teams to deliver product modules within tight deadlines.

**Operation Software Tester**                                             Jun 2023 – Jul 2023
*Go Eleventh Mile Technologies, Hyderabad*

- Identified and resolved 15+ critical defects, reducing production issues by 35%.
- Supported QA validation processes, improving application stability and user satisfaction by 25%.

## PROJECTS

**AI MediConnect**

- Built an AI voice based medical assistant for real time doctor patient interaction using Python, Gradio, FFmpeg, and PortAudio, achieving 95% speech recognition accuracy.
- Integrated Groq API for 2× faster inference (500ms latency) and ElevenLabs API for realistic voice synthesis, improving engagement by 40%.
- Streamlined deployment using Pipenv, reducing environment setup time by 50% and ensuring consistent builds.

**Real Time GPS Tracker**

- Designed a compact IoT based GPS tracker with on demand tracking, achieving 98% location accuracy.
- Implemented real time location updates every 5 seconds using Arduino Uno and NEO 6M GPS module.

**Word Puzzle Game**

- Built a responsive web based word puzzle game with interactive letter shuffling and timer based scoring.
- Applied responsive design principles to ensure smooth performance across multiple devices.

## EDUCATION

**B.Tech in Information Technology**                                              2022 – 2026
St. Peter's Engineering College                                               CGPA: 8.39/10
**Intermediate**                                                                  2020 – 2022
Narayana Junior College                                                            799/1000
**SSC**                                                                            2019 – 2020
St. Patrick's High School                                                      CGPA: 9.2/10

## CERTIFICATIONS

Cloud Computing Foundations – Google
Java Certification – DataFlair