

# MANIKANDAN K.B

Software Engineer | Full-Stack Developer | AI Enthusiast

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## SUMMARY

Aspiring Software Engineer with a consultative approach to problem-solving, specializing in building efficient, scalable business solutions. Familiar with systems analysis, customer support tools, and applying quality assurance practices in real-world projects. Passionate about solving complex problems in the healthcare and digital services industry.

## EXPERIENCE

### AI Developer Intern

Tech Vaseegrah

Jan 2025 – Present Thanjavur

- Built voice assistant using **Whisper STT**, LLMs, and RAG.
- Designed query classifier with fast NLP pipeline.

### Freelance PC Technician (Part-time)

Independent

Jan 2020 – Present Tiruchirappalli

- Resolved 500+ PC issues: hardware, OS, networks.
- Custom built PCs for AI and gaming workloads.

## PROJECTS

### Voice RAG Chatbot

Intern Project

Jan 2025 – Present

- Built speech-enabled chatbot using **Whisper STT**, RAG, and LLMs.
- Integrated smart cart with memory-based checkout flow.

### Tomato Grading System

Personal Project

Aug 2024 – Dec 2024

- Built CNN model (97.5%) using transfer learning for image classification.
- Deployed with **React** frontend and **Node.js** backend.

### Complaint Management Portal

Academic Project

Jan 2023 – May 2023

- Created MERN stack system to log and track IT complaints.
- Added role-based dashboard and email alerts.

## ACHIEVEMENTS

- Applied quality assurance methods while resolving 500+ hardware/software issues.
- Designed efficient product solutions with a customer-first approach, aligned to healthcare support tools.

## TECHNICAL SKILLS

Languages: Python JavaScript C++

PHP SQL HTML/CSS

Frameworks & Libraries: React.js

Node.js Express.js Flask

MERN Stack Apex Aura

Databases & Tools: MongoDB MySQL

Git Linux DevOps

Software Concepts: Software Design

Coding Testing Business Analysis

Software Solutions Design Patterns

Domains: Healthcare Industry

Professional Services AI Development

Speech Recognition LLMs RAG

Cloud Configuration Management

Workflow: Agile

## SOFT SKILLS

Efficient Collaborative Supportive

Analytical Thinking Leadership

Consistent Interview Ready

Responsible Professional

Team-Oriented

## EDUCATION

Master of Computer Applications (MCA)

SASTRA Deemed University

2023 – Present Thanjavur

CGPA: 6.93 / 10

Bachelor of Computer Applications (BCA)

St. Joseph's College (Autonomous)

2020 – 2023 Tiruchirappalli

CGPA: 7.80 / 10