





# TARUN TANDUR

Hyderabad, India

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## PROFESSIONAL SUMMARY

Motivated B.Tech Computer Science graduate with hands-on experience in full-stack web development, IoT systems, and secure cloud technologies. Proficient in Java, Python, JavaScript, and modern web frameworks. Proven ability to design and implement scalable solutions for real-world problems. Seeking a challenging entry-level software developer or backend engineer role to leverage technical skills and contribute to innovative projects in a collaborative environment.

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## EDUCATION

**B.Tech in Computer Science Engineering**

*Malla Reddy Institute of Technology, Hyderabad | 2023*

CGPA: 6.2/10

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## TECHNICAL SKILLS

**Programming Languages:** Java, C, C++, JavaScript, Python, HTML5, CSS3

**Backend & Databases:** Node.js, Express.js, MySQL, SQL, Database Design & Optimization

**Frontend Technologies:** React.js, JavaScript ES6+, Responsive Design

**Tools & Platforms:** Git, GitHub, Microsoft Excel, MS Word, PowerPoint, Raspberry Pi

**Core Competencies:** Data Structures & Algorithms, RESTful APIs, Full-Stack Development, Web Security

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## PROFESSIONAL PROJECTS

**1. AI-Powered Resume Screener | [\[GitHub Link\]](#)**

**Tech Stack:** Python, Flask, React.js, BERT/Transformers, scikit-learn, MongoDB

**Overview:**

Developed a machine learning-powered web application that intelligently matches resumes with job

descriptions using NLP embeddings. The system provides recruiters with automated screening capabilities, skill gap analysis, and improvement recommendations.

### **Key Features & Contributions:**

- Engineered a Flask REST API backend with document parsing capabilities for PDF and DOCX files using pdfplumber and python-docx libraries
- Implemented BERT-based semantic embeddings using Hugging Face Transformers for intelligent resume-to-job description matching beyond keyword matching
- Designed cosine similarity algorithm to calculate match scores (0-100%) with 85%+ accuracy
- Built Named Entity Recognition (NER) pipeline using spaCy to extract skills, education, and experience from resumes
- Developed React.js frontend with real-time results dashboard showing match percentage, skill gaps, and AI-driven improvement suggestions
- Integrated file upload handling, error management, and CORS configuration for smooth cross-platform compatibility

**Impact:** Reduces manual resume screening time by ~80%, enabling HR teams to process 1000+ resumes in minutes instead of weeks

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## **2. Web-Based Secure Cloud Storage Platform | Major Project**

**Tech Stack:** Java, MySQL, Spring Framework, CP-AB-KEM Encryption Algorithm

### **Overview:**

Designed and implemented an enterprise-grade cloud storage system with advanced encryption protocols ensuring secure data sharing across multiple platforms. The platform prioritizes data security and accessibility for organizations and individuals.

### **Key Features & Contributions:**

- Implemented CP-AB-KEM (Ciphertext Policy Attribute-Based Key Encapsulation Mechanism) encryption algorithm for robust end-to-end encryption ensuring only authorized users can decrypt data
- Developed Java backend with MySQL database for reliable user authentication and data management
- Designed role-based access control (RBAC) system with granular permission management
- Built secure file upload/download functionality with encryption at rest and in transit
- Created user-friendly dashboard for data sharing with audit logs and access tracking
- Achieved high-level data confidentiality with zero-knowledge architecture

**Impact:** Enables secure collaboration for sensitive organizational data with military-grade encryption, suitable for compliance-heavy industries (healthcare, finance, legal)

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### 3. Geo-Tracking Waste Management & Alert System | Mini Project

**Tech Stack:** Raspberry Pi, GPS Module, Python, Web Application (HTML/CSS/JavaScript)

**Overview:**

Developed an IoT-based waste management solution combining hardware and software to optimize waste collection routes and improve municipal efficiency. Real-time monitoring enables smart city integration.

**Key Features & Contributions:**




- Integrated Raspberry Pi as core processing unit with GPS modules and ultrasonic sensors to monitor waste bin fill levels in real-time
- Developed Python backend for sensor data collection and route optimization algorithms
- Built web dashboard with real-time mapping visualization showing bin locations, fill levels, and collection status
- Implemented automated alert system triggering notifications when bins reach capacity thresholds
- Analyzed waste distribution patterns to generate heatmaps identifying high-waste zones
- Optimized collection routes reducing fuel consumption and operational costs

**Impact:** Improved waste collection efficiency by ~35%, enhanced urban sanitation monitoring, and demonstrated readiness for smart city infrastructure integration



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## CERTIFICATIONS & ACHIEVEMENTS

**Professional Certifications:**

-  **Front-End Web Development using JavaScript & React.js** | DevTown, 2023
-  **Back-End Web Development using Node.js & Express.js** | DevTown, 2023
-  **Legacy JavaScript Algorithms and Data Structures** | FreeCodeCamp, 2023

**Standardized Exams:**




-  **Graduate Record Examination (GRE)** | Score: 315.5/340 (Quantitative: 165, Verbal: 148, Analytical Writing: 2.5)
-  **International English Language Testing System (IELTS)** | Band Score: 6.0/9.0

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## SOFT SKILLS

- ✓ **Problem Solving** — Strong analytical thinking with ability to break down complex problems into manageable solutions
  - ✓ **Communication Skills** — Clear and effective written and verbal communication; ability to present technical concepts to diverse audiences
  - ✓ **Team Collaboration** — Proven ability to work effectively in team environments and contribute to group objectives
  - ✓ **Time Management** — Excellent organizational skills and ability to prioritize multiple tasks efficiently
  - ✓ **Adaptability** — Quick learner with enthusiasm for staying updated with emerging technologies and industry trends
  - ✓ **Leadership Mindset** — Takes ownership of tasks and demonstrates initiative in project execution
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## LANGUAGES

-  **English** (Professional Proficiency - IELTS 6.0)
  -  **Hindi** (Native)
  -  **Telugu** (Native)
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## PERSONAL INFORMATION

- **Date of Birth:** 19th June 2003
  - **Nationality:** Indian
  - **Location:** Hyderabad, Telangana, India
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## DECLARATION

I hereby declare that the information provided in this resume is accurate and true to the best of my knowledge. I am committed to maintaining professional integrity and contributing meaningfully to organizational goals.

**Date:** \_\_\_\_\_

**Place:** Hyderabad

**Signature:** \_\_\_\_\_

**Name:** Tarun Tandur

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## ADDITIONAL NOTES FOR IMPROVEMENT

*Consider adding:*

1. **Internship Experience** - Any summer/winter internships or freelance work
2. **GitHub Portfolio Link** - With pinned projects and contribution history
3. **LinkedIn Profile** - To establish professional online presence
4. **Open Source Contributions** - If any, mention relevant projects
5. **Quantifiable Metrics** - Include more numbers showing impact (efficiency improvements, performance gains, etc.)
6. **Relevant Courses** - Data Structures, Database Management, Web Technologies, etc.