

# Venkatasai Dholendar Reddy Pothireddy

Python Developer

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## Professional Summary

- Python Developer with 3.2 years of experience building secure, scalable backend systems and cross-platform desktop applications.
- Proficient in Django, Flask, REST APIs, SQL databases, and front-end ReactJS for full-stack collaboration.
- Delivered modernized legacy systems, improved application performance, and implemented real-time features using WebSocket and RabbitMQ.

## Skills

Languages:	Python, JavaScript, TypeScript, Bash
Frameworks:	Django, Flask, FastAPI, Celery, Express.js, Next.js
Frontend:	ReactJS, HTML, CSS, Tailwind CSS
Databases:	MySQL, PostgreSQL, SQLite, Redis
ORM/Validation:	Prisma, Zod
Real-time/Async:	WebSocket, Redis Pub/Sub, RabbitMQ
DevOps/CI:	Docker, GitHub Actions, Git
Runtimes/Tools:	Bun.js, Postman, VS Code, PyInstaller, Pytest

## Professional Experience

### Junior Python Developer

ZKTeco Biometrics Pvt. Ltd., Bangalore

Oct 2023 – Present

- Developed a cross-platform desktop application for Windows/macOS using PySide6 and PyInstaller, reducing deployment time by 30%.
- Built Flask-based APIs with encrypted SQLite via Peewee ORM; ensured secure data synchronization across platforms.
- Enhanced ReactJS frontend performance by optimizing state management and components, improving load speed by 25%.
- Integrated real-time monitoring using WebSocket and RabbitMQ, enabling live updates for 500+ devices.
- Automated CI/CD pipelines using GitHub Actions for consistent deployments and environment management.

### Python Trainee

ZKTeco Biometrics Pvt. Ltd., Bangalore

Jul 2022 – Oct 2023

- Contributed to Time Attendance system development using Django, Redis, and Celery.
- Reduced support tickets by 20% by fixing 30+ bugs and implementing 10+ customer-focused enhancements.
- Migrated Django codebase from v1.11.21 to 4.2, resolving deprecated features and aligning with modern best practices.
- Modernized frontend with ReactJS, improving responsiveness and UX consistency.

## Projects

### Enterprise-Ready RAG Chatbot

Technologies: Python, Gemini GenAI, LangChain, ChromaDB, Docker

- Designed and deployed a production-ready RAG chatbot to answer queries over office documents (PDF, DOCX), reducing response time by 40%.
- Utilized LangChain and ChromaDB for scalable semantic search; integrated Gemini GenAI for context-aware responses.

- Built a robust document ingestion pipeline supporting multiple formats, enabling dynamic knowledge updates.
- Containerized the solution using Docker for easy enterprise deployment and DevOps integration.

### **Ralvie.AI – Productivity Tracking Application**

*Technologies: Python (PyQt), Flask, ReactJS, SQLite (Encrypted), Docker*

- Developed the cross-platform desktop application backend using Python and Flask, with secure data storage in encrypted SQLite.
- Implemented the frontend in ReactJS and PyQt for seamless desktop and web experience.
- Built features to track user productivity metrics, generate reports, and visualize trends in real-time.
- Containerized the solution using Docker for consistent deployments across development and production environments.

### **EasyTimePro – Time Attendance System**

*Technologies: Django, ReactJS, MySQL, Redis, Celery, RabbitMQ*

- Updated legacy Django codebase to latest version, fixing deprecated features and improving maintainability.
- Implemented bug fixes and feature enhancements, improving system stability and user experience.
- Modernized frontend using ReactJS, enhancing responsiveness and usability.
- Optimized backend processes with Celery and Redis to improve task scheduling and reduce support tickets by 20%.

## **Education**

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### **Bachelor of Technology in Computer Science**

Sri Venkateshwara College of Engineering, Nellore, Andhra Pradesh

(Graduated: 2022)

Relevant Coursework: Database Systems, Software Engineering, Web development.

## **Certifications**

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### **MTA: Introduction to Programming Using Python**

*Issued by Microsoft*

*Oct 2020*