

# Sri Charan Machabhakthuni

PYTHON BACKEND DEVELOPER | FASTAPI | REST APIs | PostgreSQL | DOCKER

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## SUMMARY

Backend-focused Python developer experienced in building secure transaction systems and scalable REST APIs using **FastAPI** and **SQLite** or **PostgreSQL**. Developed production-ready projects like a **Simulated Banking System**, and currently working on **PillionPal**, a GPS-based ride-sharing platform with payments and authentication.

## INTERNSHIPS

### Web Developer & Startup Support, E-Cell REC, Vishakhapatnam

Feb 2024 — Mar 2025

- Supported early-stage startups with MVP development, UI improvements, and backend workflows.
- Provided technical assistance for product architecture, deployment, and feature implementation.
- Built components for the official summit website and collaborated with the core team on branding, content, and event tech.

### Python Developer Intern, Zaalima Development, Bangalore, India (Remote)

Sep 2025 — Present

- Built the backend for **File Organizer Pro**, a desktop tool that automates file sorting, removes duplicates, and maintains system logs.
- Reduced manual file sorting effort by **~90%** based on real user usage.
- Built core architecture using **Python**, **SQLite**, **Tkinter** and **Threading**

## EDUCATION

### Raghu Institute of Technology, Vishakhapatnam - BTech, CSE-Cyber Security

Oct 2022 — Present

Recognized by faculty for standout tech contributions and student leadership

## ACHIEVEMENTS

Finalist (Top 15/150) — AIDEATHON 2025, T-Hub Aditya University

## PROJECTS

### PillionPal - Cut Cost Not Convenience, [GitHub](#)

Sep 2024 — Present

- Tech Stack:** FastAPI, WebSockets, Supabase, JWT, PostgreSQL
- Backend for a motorcycle ride-sharing platform using **FastAPI**, **WebSocket**, **Supabase**.
- Implementing **real-time GPS tracking**, **JWT auth**, OTP login, booking system, and payment gateway.
- Developing **Fair Split**, a mileage-based fare-splitting algorithm for riders and pillion users.

### Simulated Banking System, [GitHub](#), [Live Demo](#)

Feb 2025 — Mar 2025

- Tech Stack:** FastAPI, PostgreSQL, SQLAlchemy, Docker, JWT, Async I/O
- Built a **production-ready banking backend** with **FastAPI + PostgreSQL**, securing logins using **JWT**, **HTTP-only cookies**, and **refresh tokens**.
- Enforced **Row-Level Security** and **RBAC** across **users**, **accounts**, **transactions**, **audit logs**, ensuring **0 unauthorized access** in tests.
- Designed **atomic SQL transactions** and **audit logging** (IP, timestamp, user ID), validating **500+ safe money operations** in testing.

## SKILLS

**Languages** : Python, JavaScript, SQL

**Frameworks** : FastAPI, NextJS, Tkinter

**Databases** : SQLite, PostgreSQL, Supabase

**Tools & Platforms** : Git, GitHub, Docker, Render, Figma, Postman

**Concepts** : REST APIs, Authentication (JWT/OAuth), API Documentation, Async I/O, CI/CD Pipelines, Testing (PyTest)