Abhishyanth Vemula

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SUMMARY

Computer Science undergraduate (CGPA 9.3) focused on backend engineering and AI applications. Built AI agents connected to live backend data with Python, Django, FastAPI and FastMCP during an internship at Nestafar Technologies. Develops full-stack products end to end, from REST APIs, authentication and databases to React front ends and deployment.

EXPERIENCE

AI Backend Development Intern, Nestafar Technologies — Jan 2026 – Mar 2026

- Built AI agents in Python using Django, FastAPI and FastMCP.
- Connected agents to live backend data through internal APIs, enabling context-aware responses.
- Shipped features and bug fixes across the backend.
- Tested and validated releases across Linux-based development and deployment workflows.

PROJECTS

WiniOS – Private clipboard sync between Windows and iPhone — github.com/abhi-v-10/WiniOS
Rust, Tokio, Axum, Rustls, Win32 API, Inno Setup

- Native Rust agent that listens for Windows clipboard changes (WM_CLIPBOARDUPDATE, no polling) and serves text and images to iPhone Shortcuts over authenticated HTTPS.
- Security by default: TLS 1.2/1.3 through Rustls, bearer authentication, binding restricted to loopback or private IPv4 addresses, and no clipboard data written to disk.
- Released as a Windows tray application with a per-user installer that needs no admin rights (v0.1.3 pre-release).

IRIS – Invoice and receipt intelligence — iris-amdd.onrender.com
Python, Flask, Tesseract OCR, OpenCV

- OCR pipeline that reads photos, scans and PDFs, then extracts vendor, date, line items, tax and total.
- Validates extracted values by cross-checking line items, subtotal, tax and total, and flags mismatches for review.
- Spending dashboard with category breakdowns, monthly trends and CSV/PDF export; deployed on Render.

JobSeek – AI-powered job portal — github.com/abhi-v-10/JobSeek
React, TypeScript, Django REST Framework, FastAPI

- Full-stack platform for job discovery, application management and messaging between candidates and recruiters.
- Integrated SeekBot, an AI career assistant for résumé review, job matching and skill-gap analysis.

QP-Gen – AI question paper generator — github.com/Paardhu22/qp-gen
Django, Next.js, PostgreSQL (pgvector), OpenAI API

- Generates CBSE-compliant question papers from a textbook chapter with configurable marks, sections and question mix.
- Streams each paper into an editor for review, with export to PDF and Word.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Rust, C++, C, SQL
Backend: Django, Django REST Framework, FastAPI, Flask, FastMCP, REST APIs, JWT Authentication
AI / LLM: AI Agents, Tool Calling, OpenAI API, Google Gemini, Claude, Pydantic, Retrieval (RAG), Prompt Engineering
Frontend: React, Next.js, Tailwind CSS, HTML, CSS, Three.js
Databases: PostgreSQL, pgvector, MongoDB, SQLite, Redis
Tools: Git, GitHub, GitHub Actions, Linux, Render

EDUCATION

B.Tech, Computer Science and Engineering – CGPA: 9.3 — Aug 2024 – 2028 (expected)
Chaitanya (Deemed to be University), with NxtWave Institute of Advanced Technologies (NIAT), Hyderabad

Intermediate (MPC) – Sri Gayatri Junior College, Hyderabad – CGPA: 8.3 — 2022 – 2024

Secondary School (CBSE) – Bharatiya Vidya Bhavan's Public School, Hyderabad – CGPA: 8.9 — 2022

ACHIEVEMENTS AND LEADERSHIP

- **Best Team Member Award**, NIAT Student General Council (Apr 2026); Core Team Member, 2024–2026.
- **INSPIRA'25**, IIT Hyderabad: participant; built CyberEdu in the fest's Lovable hackathon.
- **UI/UX Mega Workshop**, NxtWave (Dec 2024): redesigned an application end to end in Figma.