

MOHANTEJA DHARMAVARAPU

FULL STACK DEVELOPER | AI ENGINEER

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SUMMARY

Full-Stack Software Engineer who enjoys building end-to-end scalable products where AI, data, backend and frontend systems come together to solve real-world problems. Worked at BarNet (openlaw), build full-stack web applications using Next.js and FastAPI to surface publicly available legal data across Australia, while contributing to backend integrations, data workflows, and UX improvements. Began career at Cognizant, working in a Red Team cybersecurity environment, where automated penetration testing workflows using Python and built dashboards to visualize security and vulnerability detections in real time.

Alongside professional work, actively building AI-enabled full-stack projects, integrating LLM APIs, designing prompt-driven workflows, and deploying end-to-end applications that bring AI features into real products.

SKILLS

- **Backend:** Python, Django REST, FastAPI, PostgreSQL
- **Frontend:** JavaScript, TypeScript, React.js, Next.js
- **Data:** Pandas, NumPy, Matplotlib, Seaborn, Scikit Learn
- **AI/ML:** NLP, LLM, Hugging Face, Prompt Engineering, Fine tuning
- **Cloud & DevOps:** AWS, Git, Docker

PROJECTS

Teja Wellness | Feb 2026 – Present

Live Demo: <https://healthidream.vercel.app/> | **Code:** <https://github.com/mohantejad/healthidream>

Skills: Python, Django REST, PostgreSQL, Next.js, Oracle Cloud, Vercel

- A one stop Hub for Fitness, Health and Beauty AI assistant club with full database of recipes, products, workouts, articles, tips that helps user to stay healthy and fit.
- Developed using Django REST Framework and PostgreSQL database with recommendation system personalizing user's interests using pgvector.
- Designed user friendly UI/UX with frontend that display all the data for user needs along with global state management using redux.
- Added AI chatbot customized to fitness and health growth with RAG system to use the PostgreSQL database in the backend to result with accurate information related to Teja Wellness Website.

CareerIDream | Dec 2025 – Present

Live Demo: <https://careeidream-private.vercel.app/> | **Code:** <https://github.com/mohantejad/careeidream>

Skills: Python, Django REST, PostgreSQL, Next.js, Render, Vercel, Supabase, Groq API

- Built a backend-driven AI-assisted platform for resume and job-description matching using RESTful APIs and structured data workflows.
- Designed backend APIs using Django REST Framework and integrated LLM APIs (Groq/LLaMA) with structured JSON outputs.
- Implemented document export to DOCX/PDF and deployed the system using Render (backend) and Vercel (frontend).
- Applied prompt engineering and structured LLM outputs to ensure reliable content generation in production workflows.

EXPERIENCE

Software Engineer

[BarNet \(OpenLaw\)](#) | Oct 2023 – Feb 2024 | Sydney, Australia

FULL STACK | AI/ML | DATA SCIENCE

- Developed secured, scalable and optimized APIs for legal tech using FastAPI, Django REST backends. Designed amazing and attractive frontend UI/UX using Next.js from Figma designs given.
- Scrapped large data across various open web sources, cleaned, and engineered using Pandas, NumPy and analyzed using Seaborn to create data pipeline for training ML models.
- Fine-tuned and trained LLM models with the data pipelines and integrated with backend to generate accurate legal information for users using the platform.

Software Engineer

[Cognizant](#) | Jan 2019 – Nov 2020 | Bangalore, India

PROGRAMMING ANALYST | SECURITY AUTOMATION

- Security Analyst at Cognizant worked on Automation project to develop an end-to-end app that displays newly identified CVEs in real time.
- Scrapped various CVE details from multiple sources using Selenium, Beautiful Soup and Engineered that data using Pandas, NumPy as well as analyzed using Matplotlib.
- Uploaded that data pipeline into PostgreSQL from Azure and integrated into the Django REST backend and Designed React frontend for displaying this data with amazing UI/UX experience.

EDUCATION

Master of Information Technology — University of New South Wales, Graduated December 2022

Bachelor of Technology in Computer Science & Engineering — GITAM University, Graduated June 2019