

# MOHANTEJA DHARMAVARAPU

AI-Driven Full Stack Software Engineer

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**Portfolio:** <https://mohantejad.vercel.app/> | **GitHub:** <https://github.com/mohantejad>

**LinkedIn:** <https://www.linkedin.com/in/mohantejad/>

AI-focused Full Stack Software Engineer with hands-on experience building and deploying end-to-end applications using Python, FastAPI, Django, PyTorch, and AWS. Skilled in developing scalable backend APIs, AI/ML models (LLMs, NLP, Vision), and rich frontend experiences using Next.js and TypeScript. Passionate about solving real-world problems with intelligent, production-ready software. Currently on 485 Graduate Visa, open to entry-level roles in software and AI.

## SKILLS

**Languages:** Python, JavaScript, TypeScript, SQL

**Frameworks:** FastAPI, Django DRF, Next.js, React

**AI/ML:** PyTorch, Hugging Face, Transformers, GPT, LLMs,

**DevOps:** AWS (EC2, RDS, SageMaker, Bedrock), Git

**Tools:** Postgres, VS Code, GitHub, Tailwind CSS, Figma, REST APIs

## PROJECTS

**Resume Generator** – *AI Resume Builder with LLMs*

**Skills Used:** FastAPI, Next.js, PyTorch, Gemini API, OLLAMA, AWS EC2

**Source Code:** <https://github.com/mohantejad/professionalAI-backend>

- Built an AI web app to generate resumes and cover letters based on user data and job description
- Fine-tuned LLAMA-3 with 8B parameters using OLLAMA and integrated via FastAPI

**Sai Events** – *Event Booking & Hosting Platform*

**Skills Used:** Next.js, TypeScript, Django DRF, PostgreSQL

**Source Code:** <https://github.com/mohantejad/professionalAI-backend>

- Created an end-to-end platform for event discovery and ticket booking. Designed responsive UI from Figma
- Implemented secure API backend. Integrated Stripe and user authentication with JWT

**Medical Transcript Summarizer** – *NLP Pipeline for Healthcare*

**Skills Used:** PyTorch, T5, GPT, Data Engineering

**Source Code:** <https://github.com/mohantejad/Medical-Transcripts-Summarization>

- Engineered dataset pipeline to train summarization models for medical records. Used BERT and GPT models to generate concise summaries
- Designed with doctors in mind for fast diagnostic of the patients report

## EXPERIENCE

### Software Engineer

*OpenLaw, Sydney (Sep 2023 – May 2024)*

- Built AI-driven web apps to analyze legal case data using FastAPI, Django, and Next.js
- Integrated AWS (EC2, RDS, Bedrock) to train and serve LLM models
- Designed frontend from Figma using TypeScript and Tailwind CSS
- Built scalable data pipelines to scrape, clean, and train legal NLP datasets

### Penetration Tester (Intern → Full-Time)

*Cognizant, Bengaluru (Aug 2018 – Nov 2019)*

- Automated vulnerability scanning, patch tracking, and reporting with Python
- Built web tools to track CVEs and zero-day exploits, improved red team workflows
- Conducted security audits on client systems hosted on Microsoft Azure

## EDUCATION

**Master of Information Technology (AI)** – UNSW Sydney | 2020 – 2023

**Bachelor of Computer Science & Engineering** – GITAM University | 2015 – 2019

## VISA

Currently on Subclass 485 Graduate Visa (Australia) | Open to Full-Time Roles with Full working rights