

MOHAN TEJA DHARMAVARAPU

Phone Number: 0431097803 | Email: mohantejad15@gmail.com

LinkedIn: <https://www.linkedin.com/in/mohantejad> | GitHub: <https://github.com/mohantejad>

SUMMARY

Highly motivated Software Engineer with strong command over programming languages such as Python, JavaScript and TypeScript. Skilled in writing optimized code that deliver output with less time and/or space. Experienced in designing user friendly UI/UX applications using modern frontend technologies such as React.js, Next.js and Figma. Ability to build secured and scalable backend systems using frameworks such as Django, FastAPI, Firebase, etc. Expertise in writing complex queries using SQL, PostgreSQL, MongoDB and Big Query. Knowledge over Amazon Cloud Services including EC2, RDBS, Amplify, Lambda, etc. that helps to build, deploy and maintain end to end full stack application dealing with CI/CD pipeline. Expertise over version control and agile tools such as GIT and JIRA.

SKILLS

- **Programming and Scripting:** Python, JavaScript, SQL, TypeScript
- **Backend:** Algorithms & Data Structures, Django, FastAPI, PostgreSQL, GIT
- **Frontend:** React.js, Next.js, Tailwind CSS, Three.js (Learning)
- **Cloud:** AWS (EC2, Lambda, Amplify, Sage Maker), Digital Ocean, GCP
- **Version Control and Agile Management:** GIT, JIRA, CI/CD pipeline

PROJECTS

Auth System in Django: [GITHUB](#)

- Developed and deployed a secure authentication system (sign-up, login, password management).
- Deployed on AWS EC2 and integrated with React frontend for full-stack functionality.

Portfolio Website using Next.js: [GITHUB](#)

- Designed a personal portfolio site using **Next.js**, **Tailwind CSS**, and **Framer Motion** for animations.
- Deployed on **Vercel** for public access with firebase backend for dynamic data change.

Pedestrian Detection: [GITHUB](#)

- Developed real-time computer vision model to detect and track pedestrians on the street.
- Fine-tuned YOLOv7 model for accuracy and speed, integrated DeepSORT for object tracking.

Medical Transcripts Summarization: [GITHUB](#)

- Created an AI model to summarize medical reports, aiding doctors in diagnosing patients.
- Fine-tuned **BERT**, **GPT**, **BART**, and **T5** models, with **T5** performing best for summarization tasks.

EXPERIENCE

Software Engineer [October 2023 – April 2024]

Open Law – Sydney, Australia

- Developed full-stack applications using **Next.js**, **TypeScript**, **Tailwind CSS**, and **SASS** for the frontend and **FastAPI**, **Django**, and **Rust** for backend services.
- Automated data pipelines and data cleaning processes, significantly improving data accessibility and quality for future training and testing.
- Created and implemented **machine learning models** using **TensorFlow** to automate critical tasks, enhancing efficiency and integrated to backend application.
- Collaborated with cross-functional teams, delivering scalable and reliable software solutions by providing daily updates with team meeting every day.

Data Analyst Intern [February 2023 – May 2023]

University of New South Wales (UNSW) – Sydney, Australia

- Conducted in-depth data analysis using **Pandas**, **NumPy**, **Matplotlib**, and **Seaborn**, providing actionable insights to guide business decisions.
- A Developed and deployed **machine learning models** with **TensorFlow**, automating key processes and improving data handling.
- Presented findings and insights to clients, enabling clear understanding and decision-making based on data with reasonable analysis.

Programming Analyst [January 2019 – December 2019]

Cognizant Technological Solutions – Bangalore, India

- Developed a **full-stack application** using **React.js** and **Django** to display real-time **zero-day exploits** for the cybersecurity team, automating the tracking and reporting of vulnerabilities.
- Collaborated with the **cybersecurity team** to write **Python scripts** that automated vulnerability assessments using **BurpSuite**, **Wireshark** and **Metasploit** with reporting detailed findings.
- Daily team meetups to ensure timely updates and alignment on project deliverables by interacting with entire every team to update with latest vulnerable findings and its corresponding patch's.
- Experienced over penetration testing report writing with detailed vulnerability analysis including with its CVE ID, exploit code and code to patch the vulnerability if available.

EDUCATION

Master of Information Technology [February 2020 – December 2022]

University of New South Wales (UNSW) – Sydney, Australia

- **Focus:** AI, Deep Learning, Computer Vision
- Relevant Project: Full-stack recipe recommendation application using **Django** and **React**.
- WAM: 61.5/100

Bachelor of Computer Science and Engineering [June 2015 – April 2019]

Gandhi Institution of Technology and Management (GITAM) – Vizag, India

- Learnt basics of computer science including algorithms and data structure, C, C++, Java
- Studied subjects like CN, cloud computing, AI, DSA, FLAT, compiler design, etc.
- CGPA is 7.6 out of 10

CERTIFICATIONS

- Data Science, ML and DL Bootcamp Udemy Course – Krish Naik
- Django and React E-commerce Udemy Course – Dennis Ivy
- Three.js Journey Certification (In progress) – Bruno Simon's course

VISA

- Temporary Graduate Visa
- Subclass 485 with full work rights in Australia
- Valid until May 5, 2028

REFERENCE

Available Upon Request