

NAGA NAREN TEJESH NEELAM

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Summary

Versatile Computer Engineer with strong technical expertise and academic training across computer science subjects including Data Structures, Algorithms, Operating Systems, Computer Organization, and Networks. Recently enhanced skills in Foundations of Data Science and Data Visualization. Knowledgeable in all phases of computer hardware and software lifecycles, with the ability to maintain and improve legacy systems as well as design and implement modern, cutting-edge solutions from scratch.

Work Experience

Research Internship at NIT Calicut

May 2025 - July 2025

During my internship at NIT Calicut, I worked on a project focused on Handwritten Text Recognition using Vision Transformers. This experience allowed me to enhance my skills in deep learning, OCR, full stack development, and multilingual text processing.

Projects

Handwritten Text Recognition System

(Vision Transformers, FastAPI, React.js)

- Built a multilingual OCR system for Hindi, Telugu, and Malayalam using TrOCR, Donut, EasyOCR, and Tesseract.
- Developed FastAPI backend and React.js frontend for image upload and text extraction.

Multiple Disease Prediction System

(Python, Django, MSSQL, ML)

- Designed a web-based tool to predict risks of heart disease, liver disease, and diabetes using Random Forest, KNN, and XGBoost.
- Built with Django backend and MSSQL database, with HTML, CSS, and JavaScript frontend.
- Integrated chatbot support and hospital recommendation system for improved user experience.

Grocery Shopping Website

(React.js, Custom CSS, Firebase)

- Created a full-stack shopping platform with product categories, cart, and payment gateway.
- Implemented Firebase-based authentication for login/signup.

Neelam's Communication Network

(Full Stack Web Application)

- Created a role-based system (Admin, LCO, User) for cable management.
- Features included package selection, payments, complaints, and user management.

Graph Visualization Tool

(React.js, D3.js)

- Built an interactive tool to create nodes/edges, visualize graph algorithms, and calculate distances.

Education

2023-2027	Bachelor's Degree at Amrita School of Engineering,(Currently in 5th Semester)	(GPA: 7.58/10.0 (4th semester)
2021-2023	Class 12th(MPC) at Royal Junior College	(MARKS : 892/1000)
2021	Class 10th at The Future Kids School	(GPA : 9.2/10)

Technical Skills

Languages: Python, C

Web Development: HTML, CSS, JavaScript, React.js

Databases: MySQL, MSSQL

Machine Learning & AI: Vision Transformers, OCR (TrOCR, Donut, EasyOCR, Tesseract),

Certifications

Google AI Essentials — Coursera (powered by Google)- [link](#)

Developing Front-End Apps with React — Coursera (powered by IBM)- [link](#)

Building Websites with WordPress — Coursera Project Network- [link](#)

Research Internship Certificate — NIT Calicut (Handwritten Text Recognition using Vision Transformers)- [link](#)