




# DEVI SRI CHARAN VALUPADASU

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## EDUCATION

### IIIT Delhi

Jan. 2021 - Jun. 2024

B.Tech Computer Science and Design

## COURSEWORK

**Courses:** DSA, DBMS, Advanced Programming, Analysis and Design of Algorithms, CN, OS, NLP, Usable Security and Privacy, IR, Discrete Mathematics, ML and RL in Finance Specialization, Affective Computing

## EXPERIENCE

### Software Engineer | LUMIQ | MERN Stack, NestJS, TailwindCSS, Python, FastAPI, Java, AWS, Linux

Jun. 2024 – Present

- Developed a **deduplication engine** for processing insurance data, reducing duplicate records by **40%** and improving data accuracy, leading to enhanced operational efficiency for multiple **insurance company clients**.
- Built an **internal project management and resource allocation platform**, increasing team productivity by **30%** by streamlining project tracking and optimizing resource utilization.
- Developed a **Claims Management System**, which reduced claim processing time by **25%**. Implemented monitoring, automation testing, and Docker containerization, leading to a **30%** reduction in deployment failures.
- Built a stateful application using Strapi for **dynamic content management**, integrating a custom frontend with robust API validations and PDF export functionality. Successfully deployed the platform using Docker, improving content management efficiency by **35%**.

### Full Stack Developer | MIDAS Lab IIITD | MERN Stack, TailwindCSS, Python, Flask, AWS

Jan. 2023 – Nov. 2023

- Developed a backend system for a real-time environmental sensing system, efficiently handling over 1 Lakh data points per day, reducing data processing time by **30%**.
- Created robust **REST API endpoints** that improved data retrieval speed by **40%** for high-volume sensor networks. Developed a **data-driven website** for visualizing sensor data, increasing user interaction and data comprehension by **50%**.

## PROJECTS

### ArtiSight | React, TailwindCSS, Flask

Apr. 2024

- Led the development of an AI photo critique platform for aspiring photographers.
- Developed the backend using **LLMs** for analyzing photos and generating critiques, reducing manual review time by 70%.
- Developed a Resource Database Retrieval System to ensure photographers receive relevant educational content based on their photo critiques, improving user satisfaction by 50%.

### Wasto | Python, Tensorflow, Pytorch, MobileNetV3Large, RoBERTa base, Gradio, Arduino, Bootstrap

Oct. 2022

- Developed an image classification model for waste classification using transfer learning on MobileNetV3Large, fine-tuned to achieve over 88% accuracy on a custom dataset.
- Integrated model with a Python-based backend and leveraged HuggingFace Gradio for an interactive web application, resulting in a 50% increase in user interaction.
- Integrated the model with an Arduino-based smart bin, automating waste sorting and increasing efficiency by 40%.

### Alpha Messenger | JavaScript, HTML, CSS, PHP, SQL

May. 2022

- Developed a full-stack, **real-time messaging website** featuring a user interface and efficient data storage.
- Implemented **AJAX** for asynchronous communication, ensuring real-time chat updates without page reloads, enhancing user experience by 45%.
- Designed database schema using SQL for robust data management and **implemented PHP backend** for handling server-side logic.

## SKILLS

**Languages:** Python, JavaScript, Java, SQL, HTML, CSS, Typescript

**Technologies:** React, Redux, Next.js, Node.js, Express.js, MongoDB, NestJS, Tailwind CSS, Bootstrap, Git, Docker, AWS

**Libraries:** Numpy, Pandas, Matplotlib, Seaborn, TensorFlow, PyTorch, spaCy

## ACHIEVEMENTS

**Won 1st Place** | SMAI Hackathon by Micron India

Oct. 2022

**Scored 99.2303444 percentile** | JEE MAINS

Jan. 2020

## CERTIFICATIONS

**AWS Partner: Accreditation (Technical)** | LUMIQ

June. 2024

**AWS Certification** | Scaler

May. 2024