



Dande Dhanesh Kumar +919381263541

B.Tech - Indian Institute of Technology Tirupati, India

[Portfolio](#) [Github](#) [Linkedin](#) dandedhanesh899@gmail.com

Education Details

Program	Institute	Year	%/CGPA
B.Tech - Mechanical Engineering	IIT Tirupati	2024	8.27/10
Higher Secondary Education	Abhyas Junior College, Proddatur	2020	98.1%
The Board of Secondary Education	Sri SreeVani Vidyalayam, Proddatur	2018	10/10

Technical Proficiency

Technical Skills	:	C++, JavaScript, TypeScript, Data structures and Algorithms, Object-oriented programming, Java(familiar), Python(familiar)
Tech Stack	:	React.js, Node.js, Express.js, Mongoose, MongoDB, Tailwind CSS, Socket.io, WebRTC, SQL, HTML, CSS, Serverless, Docker, Nginx, Redis
Softwares & Tools	:	Android studio, Visual Studio, MS Office, Ansys, Creo, Git

Experience

- **Genetic Algorithm Intern, BluJ Aerospace** [May 2023 - July 2023]
[Guide : Utham Kumar Dharmapuri]
 - Propulsion system analysis of an e-VTOL aircraft using Genetic Algorithm.
 - Developed a **genetic algorithm** for a 6 propeller e-VTOL aircraft using **C++**, which estimates the thrust forces required from the motors to balance the aircraft in hovering conditions. This work revealed that the **motors chosen are inadequate to generate sufficient thrust** in the presence of a propeller failure and a shift in CG w.r.t center of lift.

Projects

- **StudyNotion** [[website](#) & [Source code](#)] [April 2023 - June 2023]
 - Built a full stack **EdTech** platform using **MERN stack** and **Tailwind CSS** with **authentication** and **authorization**, storing user data in **MongoDB Atlas**. **Razorpay** is integrated for **payment** options and **cloudinary** is to store media. Made **30+** **APIs** to connect backend functionality with frontend.
- **Zoom Clone** [[Source code](#)] [January 2024]
 - Built a **real-time video calling** application using ReactJs, NodeJs, ExpressJs and **webRTC**, **Socket.io**.
- **Shopping website** [[website](#) & [Source code](#)] [September 2023 - October 2023]
 - Designed and built a full stack e-commerce website using **MERN stack** and **Tailwind CSS** with **authentication** and integrated **razorpay payment** options.
- **BluJ Aero** [[website](#)] [June 2023]
 - Designed and built a website using **React** and **Tailwind CSS** for an **aerospace startup**, BluJ located in Hyderabad and, hosted the website on Godaddy.

Relevant Courses

- Data Structures and Algorithms in C++
- MERN Stack

Achievements

- Cleared 2 rounds of IICC conducted by AICTE and came into waiting list for final round.
- Currently ranked 4th in [GFG](#) in IIT Tirupati institute section.
- Secured a rank of 283 in EAMCET

Positions of Responsibility

Multi media team

- Worked in mutli media team as a core member for tirtsava, a techno cultural fest of IIT Tirupati.