

Dibyam Jalan

Third Year ECE Undergraduate SVNIT Surat

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[GitHub Profile](#)

[LinkedIn Profile](#)

EDUCATION

SVNIT SURAT

BTECH IN ECE

Expected June 2025

CGPA: 8.18/10.0

ALGOUNIVERSITY

REMOTE

Accelerator batch of 2023

Learned problem-solving and solved **120+ problems** using Data Structures & made scalable projects under the mentorship of **Senior Engineers from Google, Apple, Grab Singapore, and Microsoft**

COURSEWORK

ALGOUNIVERSITY

Problem-Solving DSA

Competitive Programming

CS Fundamentals

System Design

Scalable Architecture & Design

AWS

Soft Skills

Version Control - Git

Low-Level Design

UNDERGRADUATE

Fundamental of Computer and Programming

Data Structure and Algorithms

Computer Graphics

UDEMY

Introduction to Android Development using Java

SKILLS

PROGRAMMING LANGUAGES

• C • C++ • Java • Python • Javascript • XML
• Assembly

FRONTEND

•HTML •CSS •ReactJs

BACKEND

• NodeJs • Docker
• ExpressJs

DATABASE/LIBRARIES

• MySQL • Tkinter • MongoDB

TOOLS

•Git •GitHub •Latex •Matlab •Selenium

PROJECTS

ONLINE JUDGE | MERN | AWS | DOCKER

[Deployment Link](#) | [GitHub Link](#) | [Demo Video](#)

- Built an Online judge that remote runs code securely and judges if the given code is **correct/ wrong / inefficient**.
- This web-based application enables users to write, compile, and execute code in the C, C++, and Python languages.
- Implemented using the **MERN stack**, the frontend is developed with **React.js, HTML and CSS**.
- Backend server is implemented using **Node.js** and **Express.js**, and handles user requests through **RESTful APIs**. Used **MongoDB** as the database to store user information, code snippets, problems, and test cases.
- Containerized code compilations by exploring Docker and sand-boxing techniques to add layers to security. The web app was deployed on an **AWS**.
- Implemented features of **Leaderboard, user submission history and problem tags**.
- Planning to deploy it in production using **Gunicorn** and **Nginx** such that a single server can handle a load upto 500 users with Horizontal Scaling.

ECOMMERCE WEBSITE | MERN | REDUX

[Deployment Link](#)

- Built an **E-commerce** website to sell ArtWorks.
- Implemented it using **Node.js** and **React** to build features such as Admin Dashboard and Authentication.
- Designed the UI for maximising **User Experience**
- Currently, the website is **live** and attracting a growing number of active users.

ALIEN GO HOME | REACT | REDUX | SVG

[Deployment Link](#)

- Built a **Game** using **React** and **Redux**.
- Used **SVG** to design various elements and graphics.
- Stored current state using **redux**.
- Live website with **50+ active users**.

AUTORENEW | PYTHON | WEB AUTOMATION | SELENIUM

- Developed **Automated bot** using **Python Selenium** for SVNIT's book renewals.
- User-friendly interface created with **Tkinter** for ease of use.
- **Selenium** enables efficient **web automation**, simplifying the renewal process.
- Actively used by developers and friends to expedite book renewals.
- Book renewal time reduced to just **12 seconds**, greatly enhancing efficiency.

ACHIEVEMENTS

Year	Rank	Contest/Exam
2022	Ranked 185/2500	CodeChef LTIME112C
2022	Ranked 278/3300	CodeChef START62C
2021	Top 1.29%ile / 1 million students	JEE MAINS-2021
2021	Ranked 12908/400K Candidates	JEE Advanced-2021