

# SIDDHARTH MAURYA

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## EDUCATION

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### Delhi Technological University

Software Engineering – B.Tech 3rd Year (CGPA: 9.09)

New Delhi, India

August 2023 – Present

### Army Public School

Class 12th: Higher Secondary Certificate (94%)

New Delhi, India

2023

### Army Public School

Class 10th: Secondary School Certificate (95%)

New Delhi, India

2021

## EXPERIENCE

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### Lensroom | Backend Intern Link

Remote | Sep 2024 – Nov 2024

- **Applied engineering principles to optimize server-side code**, increasing data processing speed by 30% and enhancing image rendering performance for 500+ daily users.
- **Designed and implemented a RESTful API framework on DigitalOcean Spaces**, enabling seamless image uploads, downloads, and retrieval while reducing server costs by 40% through improved system reliability and efficiency.
- Engineered a scalable image portfolio system, reducing load times by 50% and enhancing user experience.

### DRDO | Research Intern

Delhi, India | Jun 2025 – Jul 2025

- Developed a hybrid CNN-LSTM model for EMG signal generation, achieving an  $R^2$  score of 0.25 by combining spatial convolution with temporal sequence learning.
- Preprocessed and trained on 10,000+ multi-channel EMG sequences using batch normalization, sequence padding, and tuning 5+ hyperparameters to improve model performance by 18%.

## PROJECTS

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### HostelCart – Peer-to-Peer Marketplace for Students | Link *MongoDB, ExpressJS, ReactJS, NodeJS*

- Built a full-stack platform deployed on Azure, cutting student costs by 40% and reaching 50+ listings in the first month.
- Designed a user-friendly interface with ReactJS and implemented a scalable backend with Node.js, Express.js, and MongoDB, leading to 100+ user registrations in the first 15 days.
- Integrated 30+ RESTful APIs with JWT-based authentication and MongoDB NoSQL data handling, achieving sub-200ms response times and 0% downtime during the beta launch.

### CrackCodeCat (Freelance project) | Link

*NextJS, Typescript*

- Built course selling platform with NextJS/TypeScript, supporting 100+ users and role-based access across 2 user types with 99.9% uptime.
- Implemented Razorpay webhook integration and managed backend infrastructure.

### OneDTU – Centralized Campus Platform for DTU Students | Link *MongoDB, ExpressJS, ReactJS, NodeJS, Nginx, Azure*

- Built a MERN-based campus platform deployed on Azure, centralizing hostels, societies, campus spaces, and navigation, attracting **150+ student sign-ups** within the first month.
- Onboarded **5+ student societies** and enabled students to list and sell items on the platform, reaching **10+ active listings** shortly after launch.
- Configured a production-grade Linux server with Nginx reverse proxying and optimized API routing, achieving **99% uptime** and stable performance during early adoption.

## TECHNICAL SKILLS

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**Languages:** Python, C++, JavaScript, Arduino, SQL

**Web:** React.js, Django, Node.js, HTML, CSS, Tailwind CSS

**Core:** DBMS, OOPS, OS, Computer Networks

**Tools & Technologies:** Git, GitHub, Firebase, MongoDB, MySQL, Azure, AWS