

# Devidutta Nayak

B.Tech Third Year  
Computer Science & Engineering  
NIT Rourkela  
CGPA:8.91

Mob.: +91-6370857808  
Email: [deviduttanayak000@gmail.com](mailto:deviduttanayak000@gmail.com)  
Github: [deviduttanayak-github](https://github.com/deviduttanayak-github)  
LinkedIn: [devidutta-nayak](https://www.linkedin.com/in/devidutta-nayak)

## Skills

### LANGUAGES

C/C++, Python, JavaScript

### INTERMEDIATE

NODE JS, REACT JS, SQL-Postgres,  
DBMS, ROS, OPENCV, QT5

### BASIC

ML, Pytorch

### OTHERS

Git, Linux, HTML, CSS

## Courses Completed

Data Structures  
Design and Analysis of Algorithms  
Database Engineering  
Digital System Design  
Computer Organisation & Architecture

## Education

2019-PRESENT  
B.TECH. IN CSE  
NIT ROURKELA  
CGPA : 8.91

2017-2019  
INTERMEDIATE  
DAV Public School (CBSE)  
Percentage: 95.40%

2017  
HIGH SCHOOL  
Montfort School (ICSE)  
Percentage: 92%

## Interests

Football, Cricket, Badminton  
Travelling  
Competitive Programming  
Learning New things

## Experience

- JAN 2022 Computer Vision Intern at Drivomate**  
My work was to detect vehicles at night time, based on their headlight where conventional object detection fails to work. Everything needs to be done efficiently with image processing due to on-board computation limitations.  
*OPENCV, Python, Numpy*
- 2019-NOW Software Team Member at Team Tiburon, NIT Rourkela**  
Implemented an **auto-tuning algorithm, Ant Colony Optimization (ACO)**, for PID controller of the AUV.  
Implemented image **color correction** and **glare removal** techniques for better perception of AUV.  
Built an user interface to control and monitor various functions.  
*ROS, OPENCV, QT5, C++, Python, Numpy*
- 2021-NOW Freelancer | Web Development | C/C++**  
Built a real-time multiplier Tic-Tac-Toe game where users can play and watch the game.  
*Flask, REACT JS, Socket.io, Postgres SQL, Python*

## Achievements

- 2020 MLH Backhacks Hackathon - Runners up**  
Developed QT application for eye health care in a team of four to reduce the stress on eyes. Application tracks user eye movement, makes sure user blink-rate is good and stores user's recent past activities. | [Github](#) [*OPENCV, PyQt, Python*]
- 2022 Expert at Codeforces - 1721**  
Competitive Programming. | [Profile](#) [*C++*]

## Side Projects

- 2021 Web Application - Screen/Text Sharing Web App**  
Built to share screen or text to other users connected to the same LAN. Capture screen with pyautogui, encoded and transmitted it to server. | [Github](#) [*NODE JS, Python, Socket.io, OPENCV*]
- 2021 Expense Tracker**  
Built an expense tracker with simulated payment environment. User can see how money is being spent through various visualization graphs, previous transactions history and search users to make payment. | [Github](#) | [Website](#) [*NODE JS, REACT JS, MongoDB Atlas*]
- 2021 Graph Coloring Visualizer on 2D-Grid**  
Visualizer web-app for graph coloring algorithm for a 2D grid. Applied a greedy algorithm so that no two adjacent region have the same color. | [Github](#) | [Website](#) [*Algorithms, HTML, CSS, JS*]