

Rohan Balot

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Education

NSIT(Netaji Subhas Institute of Technology), New Delhi

August, 2015 - PRESENT

B.E. in Computer Engineering

Kendriya Vidyalaya, Tagore Garden, New Delhi

April, 2013 - April, 2015

High School

Skills

- **Programming Languages:** C, C++, Java, C#
- **Scripting Languages:** Bash(basic), Python(basic)
- **Operating System:** Windows, Linux (Ubuntu)
- **IT Constructs:** Data Structures
- **Database Management System:** MySQL
- **Frameworks, Tools & Libraries:** Qt, Android Studio, Qt Creator, OpenCV, CodeBlocks, Numpy

Projects

Finger-Paint

- A desktop app that lets you draw on screen by tracking colored strips worn on fingers.
- App allows editing existing images and saving images.
- **Built With:** C++, Qt, OpenCV

Image Sudoku Solver

- An application that takes in image of newspaper sudoku, and then solves it using image processing and machine learning.
- Image processing techniques like contour detection and morphology are used to extract sudoku grid from image, and then cells from the grid
- **Built With:** C++, OpenCV

Graphiculator

- A console application that plots graphs of mathematical expressions.
- Uses 'Shunting Yard Algorithm' by Edsger Dijkstra. Modified to work for trigonometric functions.
- **Built With:** C++

Chess Game

- A two-player GUI chess game implementing all major OOP concepts. Shows possible moves with help of techniques like backtracking and greedy approach.
- **Built With:** Java

ToDo App

- An android todo app to maintain and schedule your work.
- **Built With:** Java, Android, MySQL

Achievements

2017 **Snackdown - 615 / 21038 (Team unsignedint)**, Codechef's annual coding competition

2017 **June Long Challenge - 295 / 9130 (Handle: rohanbalot)**, Codechef

2017 **Country Rank - 1600 / 87877**, Codechef

2017 **Purple Rated (Max rating - 1913, Handle: rohanbalot)**, Codechef