

# Saurav Manohar Gajbhiye

Third Year B.Tech

Department of Computer Science and Engineering

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Indian Institute of  
Information Technology, Nagpur

## EDUCATION

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**Indian Institute of Information Technology, Nagpur**

2017 - 2021\*

B.Tech in Computer Science and Engineering; CGPA: (7.9/10)

**High School**

2016

Senior Secondary (State Board); Percentage: (87%)

**Secondary School**

2014

Secondary (State Board); Percentage: (84%)

## INTERSHIPS

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**SBSI Intern**

June 2018 - August 2018

*Swachh Bharat Summer Internship*

- Completed Swachh Bharat Summer Internship under Government of India to make people aware of sanitation and cleanliness habits. Basically, it was a 100 hour Internship in which we successfully organized Cleanliness Rallies, Awareness Campaign and conducted many Informative Sessions.

## SELECTED PROJECTS

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**Smart Irrigation System** : Developed an Smart Irrigation System which is cost effective and can be used by any farmer across the entire globe. Along with the hardware this System is also supported with an Android App called "Hydroteq". This System completely automates the existing Irrigation Techniques.

**AI plays Flappy Bird** : Developed an Artificial Intelligence Game called Flappy Bird using Neat and Python. The primary objective of this game was to develop an AI model which automatically learns to play Flappy Bird.

**LED Audio Visualiser** : The main objective of this project was to develop a Smart LED Strip which reacts to various sound frequencies. This system was controlled using Arduino and various other sensors like Sound Sensor.

**Battery Charging Mechanism** : Developed an Battery Charging and Backup Mechanism which was integrated in the Smart Irrigation System to automatically charge the Batteries when electricity is not available in the region, also when batteries are fully charged the same circuit is used to provide power to the Smart Irrigation System.

**Home Automation using Google Assistant** : Developed an Home Automation System using Arduino and NodeMCU which automatically switches on and switches off the lights via the help of Google Assistant. The main objective of this project was to learn about the Micro controller NodeMCU.

**Image Processing Software** : Developed an Image Processing Software purely coded in core Java. The main objective of this project was to develop a Real Time Photo editing Software using Java.

Various functionalities available in the software are Sharpening the Image, Changing the Brightness, Altering the Saturation, Hue and many others as well.

## TECHNICAL SKILLS

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**Programming Languages:** C, C++, Python, Core Java, PHP, JS, HTML, CSS

**Tools and Frameworks:** Unity 3D, Adobe Premiere Pro, Adobe Lightroom, Adobe Photoshop, Adobe Illustrator, Adobe Lightroom Classic, Adobe After Effects and Da Vinci Resolve

**Hardware Platforms:** Arduino, Raspberry Pi, NodeMCU.

**Database:** SQL.

**Platforms:** Mac, Windows, Linux

## COURSEWORK

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**Academic Courses :** Computer Programming, Data Structures, Application Programming(HTML, CSS), Object Oriented Programming(C++ and Java), Computer System Organisation, Discrete Maths and Graph Theory, Shell Scripting in Linux, Design and Analysis of Algorithms, Software Engineering, Operating Systems, Design Principles of Programming Languages, ITWS(Python), Database Management Systems, Computer Networks, Theory of Computation, Real Time Systems, Embedded Systems

**Udemy Courses :** Data structures and Android Development

## TRAINING'S/CERTIFICATIONS

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**HTML and CSS**

Jan 2018

*Codecademy*

**Android Development**

Jun 2019

*Udemy*

## AREAS OF INTERESTS

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Embedded Systems, Internet of Things, Image Processing, Web Development, App Development, Video Editing

## ACHIEVEMENTS

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Won Smart India Hackathon 2019 Hardware Edition under the problem statement provided by ICAR Ministry of Agriculture

Won Coding Competition held at SB Jain Institute of Technology Nagpur (Sep 2018)

Organised an Internet of Things Workshop at IIIT Nagpur (Sep 2019)

## EXTRA CURRICULAR ACTIVITIES

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Technical Council Member @ IIIT Nagpur (2017-2018)

Website Developer @ IIIT Nagpur - Designed websites for Abhivyakti and Tantra Fiesta - Designed websites for Matlab Workshop

Event Management Team Member @ IIIT Nagpur - Organized Matlab Workshop for the students

Website Dev Team Member @ IIITN - For Designing College Official Website

Technical Chief Coordinator at IIIT Nagpur (2019-2020)

Core Team Member of Google's Developers Student Club of IIITN

Organised an IoT Workshop named "IoTWave" at IIITN