

Soumya Gourab Sahoo

PERSONAL DATA

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CAREER OBJECTIVE

To grow as an individual in the field of web development, software development and machine learning, by identifying and solving real world problems, which would actually make a difference in the lives of people.

EDUCATION

CURRENT Degree BACHELOR OF TECHNOLOGY,
National Institute Of Technology, Rourkela
GPA: 8.15/10

MARCH 2015 Intermediate in SCIENCE,
Mother's Public School, Bhubaneswar
PERCENTAGE: 93.67

MARCH,2013 Matriculation ,
De Paul School, Berhampur
PERCENTAGE: 93.67

PROJECTS

CENTRAL DATABASE	NOVEMBER,2016 – APRIL,2017 A website is being made with features such as all members can share regular updates by logging in and members can also put their achievements in there. I did as a group project with eight of classmates under Cyborg club.
INTELLIGENT GROUND VEHICLE	JANUARY,2017–PRESENT This was proposed on the lines of Ducky Town, an event of MIT where traffic is simulated by graphics. This is a miniature form of self-driven car. I am working in the image processing part of the RC car along with some neural network analysis and study. I am doing this as a group project under the Cyborg club.
TRAFFIC INVERSION SYSTEM	SEPTEMBER,2017–PRESENT This project deals in gathering data from multiple live videos taken from surveillance cameras on roads which in turn redirects the data into a built simulator.The goal of this project is to design a traffic simulation system that can be incorporated into an existing crowd simulation system,in full scale 3D model city, and road network. Currently in this project, we are working only on a full scale 2D model city and road network which includes making turns, changing lanes according to the priority algorithm, accelerating and decelerating to account for additional cars and avoid collisions, and management of traffic lights based on the weightage of vehicles on track and also accounting the minimum time and distance required to reach the destination by the use of the shortest path algorithm. I am doing this as a group project with 6 members of our Computer Science Department.

WORK EXPERIENCE

DATASTRUCTURE COURSE	MAY,2016-JULY,2016 In this duration I learnt about the Data Structures and algorithms which could be successfully implemented on the real world scenarios.
NITRUTSAV WEBSITE	DECEMBER,2017 Designed the frontend of Website of Nitrutsav, the cultural fest of NITRourkela.

PROFESSIONAL DEVELOPMENT

MACHINE LEARNING	Currently working on the last few weeks of the course from Stanford University by Andrew Ng on coursera.org
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TECHNICAL SKILLS

General Programming:	Java, C, C++, Python, Javascript, HTML5, CSS, JQuery
Databases:	MySQL
Frameworks:	N/A
Other Software:	Adobe Photoshop, MS Office, LaTeX, Android Studio, Matlab, Arduino, Opencv

SOFT SKILLS

LANGUAGES	English - Professional Fluency Hindi - Basic Fluency Odia - Mother Tongue
SOFT SKILLS	Leadership Analytical Thinking

EXTRA CURRICULAR ACTIVITIES

CYBORG	<i>Member, 2015 - Present</i> Cyborg the Robotics and Automation club of NIT Rourkela is the official robotics of NIT Rourkela. The club members including me have managed to bag laurels for the institute in various national level competitions. Different Projects are been done under the club. I am included in two of the projects such as Central Database – A website is being made with features such as all members can share regular updates by logging in and members can also put their achievements in there and Intelligent Ground Vehicle – This was proposed on the lines of Ducky Town, an event of MIT where traffic is simulated by graphics. This is a miniature form of self-driven car.
EPREUVE	<i>Member, 2016 - Present</i> Epreuve the online tech event was organized in the pre-innovation week in November. About 3000 participants participated across more than 20 institutes. We are even planning to organize the 2nd season of the event.
TIBURON	<i>Member, 2015 - 2016</i> Tiburón is the Autonomous Underwater Vehicle which runs underwater without requiring any human input, i.e. it possess the intelligence to make decisions based on its surroundings. The SAVe competition challenged the AUVs to perform several tasks such as following a path, passing through a gate, firing a torpedo, etc. We bagged the 3rd position in Student Autonomous Underwater Vehicle (SAVe) organized by National Institute of Ocean Technology (NIOT), Chennai.

SCHOLARSHIPS AND CERTIFICATES

AUGUST 2015	1st prize in Robosoccer event at Nit Rourkela conducted by Cyborg
JANUARY 2016	Participated in the Event Embetronix in IIT Kharagpur
DECEMBER 2016	Participated in the Event SAVe by NIOT, Chennai.
NOVEMBER 2015	Participated in the Event Death Race and Tread-o-Quest in Innovision, Nit Rourkela.
IN 2012	2nd Prize winner in International Olympiad of Mathematics IOM'12.
IN 2012	1st Prize winner in Xpress Maths in school level.
IN 2013	got selected for the 2nd round in Britanica Iken Scientifica.
BEFORE 2013	Regularly participated in Talent Search competition at school level.

INTERESTS AND ACTIVITIES

Photography Song Writing Poetry
Web App Development, Image Processing, Robotics
Cricket, Football, Travelling