

Udayraj Deshmukh

Roll Number: 150101021 B.Tech - Computer Science and Engineering Minor in Product Design Indian Institute of Technology Guwahati

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Education

Year	Degree / Certificate	Institute / Board	CGPA/Percentage
2015 - Present	B.Tech	Indian Institute of Technology, Guwahati	8.28 (Current)
2015	Senior secondary	CBSE board	94.3%
2013	Secondary	Maharashtra State Board	89.4%

Experience

• Software Developer Intern, Samsung R&D Institute, Bangalore Voice Intelligence Team

May 2018 - July 2018

- Built cross platform user authorization apps for various types of IoT devices using C++.
- Implemented local authorization for devices with UI and remote authorization for UI-less devices.
- Academic Intern, Indian Statistical Institute, Kolkata

 May 2017 July 2017

 Prof. Rajat Kumar De, MIU, ISI Kolkata

 Explored applications of RNN in protein genomics. Created a LSTM based model for protein family classification and a GRU based model for protein secondary structure prediction using tensorflow.
- Online Head, Technothlon 2017

Sept 2016 - Sept 2017

- Initiated and contributed to development of the Technothlon App, now has 10000+ downloads.
- Developed an OMR Scanning software that sped up result generation procedure.
- Created new interfaces to browse cities and query statistics from database using jQuery & Ajax

Projects

Mobile-based collaborative OMR Checker

Ongoing

Prof. Pradip K. Das, CSE Dept, IIT Guwahati

www.git.io/fNzdL

An OMR checker that can handle images taken at any angle or distance from a mobile camera. Aims to eliminate need of a scanner by allowing multiple devices to scan and process simultaneously.

· Speech Recognition Software

Ongoing

Prof. Pradip K. Das, CSE Dept, IIT Guwahati www.git.io/fAxZf Wrote speech recognition program in C++ from scratch using various speech modelling techniques.

• Online Shopping System

Sept 2018

Developed a multi-client ordering system that allows for simultaneous orders to www.git.io/fAxnK
be processed using synchronization. Built using: Java threading, networking and Swing

· Fluxo-de-Energia: Technothlon online event

Sept 2017

A visually attractive web-based multiplayer game inspired from virtual stock www.git.io/vdb1l market. Enables users to play different roles and experience stock market in a fun way.

Built using: Laravel 4 (PHP), jQuery Ajax, mySQL

· Smart Gardening System

Mar 2017

Created a raspberry pi controlled mini-garden with automated irrigation and sunlight control with live monitoring of temperature, light amount, etc via MQTT protocol.

Technical skills

• **Programming languages**: C++, Python, Java*

• Web technologies: PHP Laravel, HTML, Bootstrap/CSS, Javascript

• Database management: mySQL, Neo4J, Cassandra

• Miscellaneous: Git, Shell Scripting(Linux), Qt, Octave*

* Elementary proficiency

Positions of Responsibility

- Chief Organizer, Central Region, Technothlon 2017
 One of the six heads responsible for leading more than 150 organizers for the successful conduction of Technothlon- the international school championship in over 70 cities
- Mentor, Saathi Counselling Club, 2018

 Provided guidance to fellow mentees for their academic as well as extracurricular development
- Kapili Hostel Coordinator, Saathi Counselling Club, 2017 Conducted various club activities such as mentor-mentee interaction sessions in my hostel

Achievements

- Won 2nd place in Hack2Innovate 2017 a multi-city machine learning hackathon organized by T-Hub with NITI Aayog. Was invited to GES Hyderabad 2017
- ACM ICPC 2017 represented college at Amritapuri Double-Site regionals and secured a rank 102 out of 250+ teams.
- Codechef Snackdown 2017 secured rank 615 among 21,038 teams from 116 countries in the Pre-Elimination round
- Obtained AS Grade in minor course Introduction to Design DD210M

Key courses taken

- · Database Management
- · Operating Systems
- Computer Networks
- · Computer Graphics
- Software Engineering
 - * To be completed in Nov 2018

- Data Structures & Algorithms
- Topics and Tools in Social Media Data Mining*
- Speech Processing*
- Computer Vision and Machine Learning*

Extracurriculars

- Conducted a web development workshop and a IS hackathon in my college
- Techevince 2017: Showcased Rubik's Cube Solving robot made using arduino.
- Participated in 'Dashboard' event in 5th Inter-IIT tech meet held at IIT Kanpur
- Kriti 2016: Participated in 'Pitch It', the startup ideation event of the inter-hostel competition
- Manthan 2017: 2nd position in Charcoal Painting in the inter-hostel cultural competition
- Hobbies: Parkour stunts, Electronic Music, Photography, Table Tennis, Charcoal Painting