



Udayraj Deshmukh

Roll Number : 150101021

B.Tech - Computer Science and Engineering

Minor in Product Design

Indian Institute of Technology Guwahati

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www.github.com/udayraj123

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** *May 2018 - July 2018*
Voice Intelligence Team
 - 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
www.git.io/fAjvi
 - 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 be processed using synchronization. Built using: Java threading, networking and Swing
www.git.io/fAxnK
- Fluxo-de-Energia: Technothlon online event** *Sept 2017*
A visually attractive web-based multiplayer game inspired from virtual stock market. Enables users to play different roles and experience stock market in a fun way.
Built using: Laravel 4 (PHP), jQuery Ajax, MySQL
www.git.io/vdb1l
- 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, Technothon 2017**
One of the six heads responsible for leading more than 150 organizers for the successful conduction of Technothon- 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
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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**
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Key courses taken

- | | |
|------------------------|---|
| • Database Management | • Data Structures & Algorithms |
| • Operating Systems | • Topics and Tools in Social Media Data Mining* |
| • Computer Networks | • Speech Processing* |
| • Computer Graphics | • Computer Vision and Machine Learning* |
| • Software Engineering | |

** To be completed in Nov 2018*

Extracurriculars

- Conducted a **web development workshop** and a **JS 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

last updated: Sep 2018