Udayraj Deshmukh

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

+91-8329544805
udayrajdeshmukh7@gmail.com
deshmukh@iitg.ac.in
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 *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 **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