

ABDUL AHAD

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EDUCATION

Indian Institute of Technology Guwahati (IITG)

July 2018 – May 2022 (Expected)

Bachelor of Technology in Electronics and Electrical Engineering, CPI: 8.50/10(Current)

EXPERIENCE

Amazon, SDE Intern, Aurora Storage Team

May 2021 – Jul. 2021

- Implemented the lightweight **CPU** resource monitor within **Aurora MySQL** engine to monitor live cpu usage.
- Implemented **auto throttling** of read query processes (**LRA & Batched Read**) based on cpu usage to optimise resources for OLTP workload, that effectively **improved** query latency by **90%** in comparison to existing configuration.
- Calibrated the configuration parameters and **benchmarked** the performance for different instance types with the help of **sysbench**.

PROJECTS

Share-Cab: Android Application

Jun 2019 - Jul 2019

- Developed an android app for IIT Guwahati community for sharing cab to commute between campus and airport.
- Connects** user with other people having similar travelling schedule.Used **Firestore** Real-Time Database API to implement **real-time messaging**.

Spot-ify: Multi Robot System

Nov 2019 - Dec 2019

- Designed a multi robot system, capable of **communicating** with each other and **aligning** themselves according to given patterns with best accuracy and speed attainable.
- Used aruco marker along with **OpenCV** to localise the bots and nodemcu for controlling them.

Spotify Friend Activity: Chrome Extension

Aug. 2021 – Sep. 2021

- Developed a chrome extension where users can see what their spotify friends have been listening to, for the past couple of hours.
- Used spotify web API along with HTML and javascript to fetch details and displaying in a organised way similar to spotify desktop application.

DIC Terrace Farming Bot

Oct. 2019 – Dec. 2019

- Developed a lightweight bot that can climb up and down the steps along with plowing, watering, and harvesting.
- Mainly worked on **control architecture** and improved performance by carefully **calibrating** each unit of bot.

LEADERSHIP

Technical Project Manager, Robotics Club, IIT Guwahati

Apr. 2020 - Mar. 2021

- Responsible for constant ideation and administrative management of innovative projects.
- Organised INVICTA-2020, A **National Level** workshop and hackathon on Computer Vision and Image Processing

Control Module Head, Raman-Humanoid, 4i Labs, IIT Guwahati

Apr. 2020 - Mar. 2021

- Led the group of 8 students while working on forelimbs control of humanoid robot.

KEY COURSES

Computer Science: Data Structures and Algorithms, Operating Systems, Introduction to Modern Database Systems

Mathematics: Linear Algebra, Probability and Random Processes

Departmental Core: Information Theory and Coding, Digital Circuit, Control and Robotics Laboratory

TECHNICAL SKILLS

Programming Languages: C, C++, Python*, Java*

Competencies: MySQL, Firebase, Android Studio, Git, Arduino, Linux, OpenCV

**elementary proficiency*

ACHIEVEMENTS

Inter IIT Tech Meet 8.0: Represented IIT Guwahati and secured a **silver** medal among 21 IITs

Codechef: Achieved **4 stars** (top **5.23%** of users) with a max rating of 1800 on CodeChef

Samsung Star Scholar: Awarded scholarship for being in **top 150** students from nationwide JNVs in JEE 2018

Inter Hostel Technical Competition, Kriti: Secured **Gold** Medals in Robotics and Electronics Module

Joint Entrance Examination, 2018: Secured 99.6 percentile among 1.2 million total candidates

25th NVS National Sports Meet: Represented Lucknow Region and secured Silver Medal in Table Tennis