



Aranya Aryaman

Roll No.: 170101011

B.Tech: Computer Science and Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	7.69 (Current)	2017-Present
Senior Secondary	CBSE Board	85.4%	2017
Secondary	CBSE Board	10.0	2015

EXPERIENCE

- **Qualcomm Inc.** May 2020 - Aug. 2020
Interim Engineering Intern Hyderabad
 - Implemented Multi-Link Aggregation Feature in the WLAN Firmware for reducing the transmission latency.
 - Developed new Inter Thread Messaging procedures & resolved issues with existing procedures in the Firmware.

SELECTED PROJECTS

- **Smart Door** Sep. 2019 - Nov. 2019
Prof. Shivshankar B. Nair, Professor, Dept. of CSE, IIT Guwahati git.io/JUuhh
 - Developed an **IoT based** Solution to automate the process of secure access to the internal premises.
 - **Key Features** include Voice Recognition, Intruder Alert, Radio Frequency Identification & Validation of guests through a One Time Password using MQTT.
- **Pintos** July 2019 - Nov. 2019
Dr. Moumita Patra, Assistant Professor, Dept. of CSE, IIT Guwahati git.io/JUujY
 - Developed an **Operating System Framework** based on 80x86 Architecture.
 - **Key Features** include implementation of Kernel Threads, Loading & Running of User Programs and addition of a Virtual Memory Implementation to the existing OS Framework.
- **Placement Portal** Mar. 2019 - Apr. 2019
Dr. Pradip Kumar Das, Professor, Dept. of CSE, IIT Guwahati git.io/fj6ki
 - Developed an **Android Application** providing a common ground for companies, students & placement cell to interact.
 - **Key Features** include applying for jobs, filling preferences, uploading CVs, sending notices, booking interview slots and sending foreground & pop-up notifications for real time updates.
- **Room Delivery System** Apr. 2019
Dr. Samit Bhattacharya, Associate Professor, Dept. of CSE, IIT Guwahati git.io/fj6TT
 - Developed a **web-based** Inventory Management & Order-Delivery System using PHP & MySQL that helps the department faculties to order snacks online. Provisioned a scheduler operating on FCFS basis.

KEY COURSES TAKEN

- **Computer Science:** Data Structures, Algorithms, Operating Systems, Software Engineering, Compilers, Machine Learning, Artificial Intelligence*, Deep Learning*, Speech Processing*
- **Mathematics:** Discrete Mathematics, Probability & Random Processes, Optimization, Linear Algebra, Calculus.

* To be completed in Nov 2020

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, Java, VB, Octave, Verilog*
- **Web Technologies:** HTML, CSS*, PHP, Django*
- **Miscellaneous:** Git, L^AT_EX, Shell, MySQL, Firebase, Machine Learning, Assembly Programming, Android Studio, * Elementary proficiency

ACHIEVEMENTS

- **AI IN INDIA '20** - Secured 2nd position in the Inter Hostel AI Hackathon Event.
- **Codescape '19** - Secured 2nd position in the Duo Coding Event of Annual Technical Fest of IIT Guwahati.
- **JEE Advanced '17** - Secured AIR 570 among 0.16 million students appeared.
- **Kishore Vaigyanik Protsahan Yojna '17** - Obtained the National Research Fellowship by securing AIR 176.
- **National Standard Examination in Physics '17** - Placed in the National Top 1% among 0.1 mn students.

POSITIONS OF RESPONSIBILITY

- **Development Head**, Coding Club, IIT Guwahati Apr 2019 - Apr 2020
- **General Secretary**, Siang Hostel, IIT Guwahati Apr 2019 - May 2020
- **Mentor**, Saathi Counselling Club, IIT Guwahati July 2019 - Mar 2020

EXTRACURRICULARS

- **Kriti - Inter Hostel Technical Competition 2018:** Ultimate Burnout (2nd), Electronics Hackathon
- **Manthan - Inter Hostel Cultural Competition 2017:** Ad-mad(4th)