

Aayush Surana

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Education

- 2015-Present **Bachelor of Technology and MS by Research in Electronics And Communication Engineering**, *International Institute Of Information Technology*, Hyderabad.
CGPA : 8.0
- 2015 **Senior Secondary Examination**, *Sri Chaitanya Narayana Educational Society*, Hyderabad.
CGPA : 98%
- 2013 **Higher Secondary Examination**, *Bharatiya Vidya Bhavans' Public School*, Hyderabad.
CGPA : 10/10

Experience

- 2017-Present **Research Assistant**, *International Institute Of Information Technology, Hyderabad*.
Working as a Research Assistant in the Cognitive Sciences Lab under Dr. Vinoo Alluri. Currently working on Feature Extraction and Classification of Bird Sounds using Speech Processing methods.
- 2017 **Teaching Assistant**, *International Institute Of Information Technology, Hyderabad*.
Teaching Assistant(TA) for Digital Logic And Processors.
Conducted tutorials and lab sessions for digital logic design and processor architectures.
- 2017 **Software Engineering Intern**, *SimplerNow*, Bangalore.
Built a Call masking system associated with a custom payment wallet from scratch based on cloud telephony technology.

Projects

Mini SQL.

A replica of MySQL which reads tables from csv files and is capable of executing moderate SQL queries.

Digital Image Processing.

Image segmentation using modified watershed algorithm.

Artificial Intelligence.

Made an A.I. bot in Python to play a 4X4X4X4 variant of Ultimate Tic-Tac-Toe. Used Alpha-Beta Pruning with Iterative Deepening Search and Self Defined Heuristics.

Image Sharing Portal.

Developed a web application in Web2py for Sharing Images. Users can comment on and react to shared images.

Graphics.

Made a Snake Game in Python using Pygame library.

Information Technology.

Made a collection of Webpages interlinked using HTML and CSS.

Achievements

- ACMICPC Asia-Amritapuri Online Round 2016-17: 396(Out of 1981 Teams)
- ACMICPC Asia-Chennai Online Round 2016-17: 219(Out of 867 Teams)
- Ranked among Top 200 students in CodeAgon hosted by Code Nation
- Ranked among Top 50 in Hackerrank long challenge globally and among top 30 in India
- Received Jain Parishad Award for scoring 98% in Senior Secondary Examination
- One of the four Cultural Captains of IIIT Hyderabad
- Secured First Position in intra-college dance competition
- Former Cultural Representative of one of the four units of IIIT Hyderabad

Technical Skills

- Programming Languages: C(Advanced), C++(Advanced), Python(Moderate), Java(Basic)
- Scripting Languages: Bash, Python(Basic), Javascript(Basic)
- Web Technologies: HTML, CSS, PHP(Basic)
- Embedded: Arduino, VHDL, Xilinx ISE
- Libraries and Tools: Matlab, Octave, Cadence, Multisim Simulator

Relevant Courses Taken

- Statistical Methods of Artificial Intelligence(*)
- Communication Networks(*)
- Computer Programming
- Data Structures
- Digital Logic And Processors
- Computer System Architecture
- Information Technology Workshop-1
- Electronic Hardware Design
- Digital Image Processing

(*)-Currently Studying