Anirudh Sharma

D-210 Palash Nivas,IIIT-Hyderabad
500032-Hyderabad,Telangana-India
✆ *(+91) 9618160914, (+91) 8963032829*
✉ *anirudh.sharma14397@gmail.com*

Education

2015-Present	**Bachelor of Technology**, *IIIT Hyderabad*, Hyderabad, SGPA: 8.
2014	**Senior High Secondary**, *Jayshree Periwal High School*, Jaipur, Percentage: 88.4%.
2012	**High Secondary**, *Ryan International School*, Jaipur, CGPA: 10.

Work Experience

May-June 2017	**Software Engineering Intern**, *Right Doctors*, REST APIs Development. Developed REST APIs for an Android Application which digitizes doctors prescription. REST APIs were developed in NodeJS and using MySQL database.
Aug-Nov 2018	**Teaching Assistant**, IIIT Hyderabad. Teaching Assistant for the course Digital Logic and Processors.

Open Source Experience

Feb-Apr 2017	**Contributor at Joomla**. Contributed to Joomla's **testing dashboard application**, in which it grabs data from different websites and shows results in form of historical data.

Projects

Ongoing	**Hand Written Digit Recognition**, ***Neural Networks***, Independent Project. Implementing a supervised, feed-forward, back-propagation network with sigmoid activation function for the problem of optical character recognition for digits between 0 and 9. The recognizer reads the image data, extract features from it and uses a multilayer feed forward neural network for classification.Also implementing one-vs all logistic regression and applied it recognize handwritten digits and compared the result with that of implemented Neural Networks.
Ongoing	**Spam Classifier**, ***Machine Learning***, Independent Project. Building a Spam Classifier using Support Vector Machines (SVMs) learning algorithm with Gaussian Kernel.
Dec-Feb 2017	**Image Compression**, ***Machine Learning***, Independent Project. Implemented the K-means algorithm and Principal Component Analysis algorithm and applied it to Image Compression.
Oct-Nov 2017	**Recommender System**, ***Machine Learning***, Independent Project. Made a movie recommending system by implementing Collaborative filtering learning algorithm.
Aug-Nov 2017	**Mini Search Engine**, Independent Project. The project involved creating a search engine to search on 46 GB Wikipedia data dump.
Jun-Jul 2017	**Mini SQL Engine**, Independent Project. Developed a Mini SQL Engine in C++ which was able to parse queries and perform basic SQL operations such as SELECT,FROM,WHERE along with aggregate operations such as max(),sum() and also JOINS.
Mar-Apr 2017	**Mini Shell**, ***OS***, Independent Project. A mini shell written in C that supports basic terminal commands like ls, echo, cd through fork and exec. Also supports background processes and single handling.
May-Jul 2017	**Ultimate 4by4 TIC TAC TOE BOT**, ***Artificial Intelligence***, Independent Project. Developed an Ultimate 4By4 TIC TAC TOE BOT using minimax search and alpha beta pruning technique.Also a heuristic was developed based on various board positions and dynamic weights according to game situations.A simple system to control attacking and defensive behavior of bot was also developed.

Oct-Nov 2017	**Modern Abhimanyu Game**, *Game Design and Engineering Project*, IIIT Hyderabad.
	Modern Abhimanyu is a Single Player maze game, to be played on desktop device, whose central character is inspired from the famous Indian Mythology Mahabharata character Abhimanyu. The game is implemented building scalable, reliable game interfaces using Unity and Blender technology.
Jan 2017	**2-D Carom Board Game**, Independent Project.
	Built a simple Single Player Carom Game using C++.

Skills & Languages

Languages	C, C++, Python, MATLAB, LATEX, Bash, Verilog
Web Dev.	HTML, CSS, MYSQL, Unity, Blender
Basic	Word, Excel, Multisim
Platforms	Linux, Windows

Courses Undertaken

Machine Learning	Artificial Intelligence
Programming	Data Structures
Speech Processing	Speech Systems(Ongoing), Speech Technology
Mathematics	Linear Algebra and Vector Spaces, Probability and Random Processes, Discrete Maths
Game Designing	Game Design and Engineering
Information Technology	IT Workshop-I, IT Workshop-II
Electrical and Electronics	Communication Networks(Ongoing), Wireless Sensor Networks, Digital Signal Processing, Basic Electronic Circuits, Embedded Hardware Design
Others	Computer System Organisation, Digital Logic and Processors

Achievements

Ranks	**1. Listed in Top 0.4% in JEE Main and Top 5% in JEE Advanced which are Prestigious exams in India.**
	2. Secured rank in top 5% in ACM International Collegiate Programming Contest (ICPC).
Positions	**1. Member of Apex Body(Head Mentor Body for First year students).**
	2. Zombie Zone Organizer : Organized official LAN gaming event of Felicity'17.
Ratings	**1. Codeforces: 1438**
	2. Hackerearth: 1401
Links	**1. Github: github.com/Anirudh5**
	2. LinkedIn: linkedin.com/in/anirudh-sharma-0829/