

K Amulya Reddy

amulyareddyk97@gmail.com | +91 7569648379

Blog Link: [amulyareddy97](#) | GitHub Link: [AmulyaReddy99](#) | Website link: [GithubPages](#)

ACADEMIC QUALIFICATION

COLLEGE	Board/University	CGPA
Matrusri Engineering College, Saidabad, Telangana	B.E (CSE)	9.18/10 (till 4th Sem) Expected 2020
Narayana Junior College, Tarnaka, Telangana	Board of Intermediate	96.3%
St. Anns' High School, Tarnaka, Telangana	SSC	9.8/10

PROJECTS



Web Scrapers with UI (UI - Chart.js)

- Used Selenium, bs4 and PhantomJS to extract Statistical Entity from web (Stock Marketing data analysis, FIFA player analysis, Students' results are scraped from College website)
- Used Hasura AuthAPI and DataAPI on K8 cluster and stored data in the form of migrations locally as well as in Hasura database
- Used Chart.js to represent graphs as frontend



CryptoChat and various crypto-algorithm implementation

- RSA, Caesar Cipher, Vigenere Cipher, Merkle-Hellman Knapsack Cryptosystem, Scytale Cipher, Railfence Cipher, Intelligent Codebreaker
- Used Web Sockets (Socket.IO), to build a ChatApp encrypting the messages using RSA



Ms Pac Man Game Design in C# using Unity3D



Speech Recognising project

- Clone of automated apps like Siri, Cortana without DNN
- Provided interactive UI using Tkinter



Chess Playing (Forsyth-Edwards Notation)

- Given the F.E. notation as input, output shows all possible moves the player can take at that instance.

INTERNSHIP

Hasura Product Development Foundation (HPDF)
3 months duration
Dealt with NodeJS Express, Ajax, HTML, CSS during the tenure building a Web-app



TECHNICAL SKILLS

Programming Skills: Python, Java, C#, C++, C, Shell Scripting

Web Development: Flask, NodeJS-Express, HTML, Ajax, JQuery, CSS, Javascript, MySQL, Oracle SQL, SQLite

Softwares: Unity3D, LaTeX, AutoCAD, Adobe Photoshop

Libraries: C++ libraries (OpenGL)

Mobile App: Android Development, React-Native apps

Machine Learning: Keras, Natural Language Processing, Image Processing (OpenCV)

Others: Sphinx documentation, Pytests, Jupyter Notebook

AREAS OF INTEREST: Computer Vision, Artificial Intelligence (Game Planning, Search Methods, Deep Learning and Machine Learning), Algorithms Design

CERTIFICATION COURSES (NPTEL, NASSCOM)

COURSE NAME	UNIVERSITY	PERCENTAGE	DURATION
Deep Learning	IIT Madras	90%	Jul-Oct'18
Scalable Data-Science	IIT KGP	70%	Jul-Oct'18
Design and analysis of Algorithms	IIT Madras	70%	Feb-Mar'18
An Introduction to Probability in Computing	IIT Madras	56%	Feb-Mar'18
Data-structures and Algorithms using Python	Chennai Mathematical Institute	92%	Jul-Sep'17
Computer Organisation and Architecture	IIT Madras	77%	Jul-Oct'17
Fundamentals of Databases	IIT Kanpur	70%	Jul-Sep'17
Programming in C++	IIT KGP	86%	Feb-Apr'17
Introduction to Modern Application Development	IIT Madras	75%	Jan-Mar'17

ACADEMIC COURSE WORK

Computer Science: Computer Programming in C, Object Oriented Programming in C++ and Java, Data Structures and Algorithms, Abstractions and Paradigms in Programming Language, Digital Logic Design, Design and Analysis of Algorithms, Computer Organisation and Architecture, Database Management System, Microprocessors and Interfacing, Operating Systems, Computer Graphics, Automata Language Theory, Artificial Intelligence, Data Communications

Mathematics and Statistics: Discrete Structures, Calculus, Linear Algebra, Ordinary Differential Equations, Probability in Computing, Probability and statistics

EXTRA CURRICULAR ACTIVITIES

1. Secured 2nd prize in state level Technical Quiz during CSI Telangana State Level Student Convention - Fusion 2018
2. Participated in Smart City Hackathon 2018 Grand final and stood as top 10 teams in the state
3. BITS ATMOS - Ethical hacking 2 day seminar and participated in Algomaniac Contest
4. Organised 2 day fest, Dhruvamedha'18 and co-ordinated Algomaniac event
5. Unity3D workshop at MVSR - Active along the session learning C# and Unity3D Features
6. Presented Pac-man game in Project Expo'18 in our college
7. Participated in Capgemini Tech Challenge (Tech Quiz, cleared all three rounds)

LANGUAGES KNOWN

English, Hindi, Telugu, Spanish

