

# K Amulya Reddy

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## ACADEMIC QUALIFICATION

COLLEGE	Board/University	CGPA
Matrusri Engineering College, Saidabad, Telangana	B.E (CSE)	9.18/10 (till 4rd 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)

- Statistical Entity extraction from web (Stock Marketing data analysis , FIFA player analysis)
- Results of students are scraped from College website using Selenium, bs4 and PhantomJS



### Product Development Web-app

- Web-app helps in Organising events as part of Internship



### Ms Pac Man Game Design in C# using Unity3D



### Cryptography algorithms implementation

- RSA, Caesar Cipher, Vigenere Cipher, Merkle-Hellman Knapsack Cryptosystem, Scytale Cipher, Railfence Cipher, Intelligent Codebreaker



### ChatApp using web sockets - Socket.IO



### Speech Recognising project

- Clone of automated apps like Siri, Cortana without DNN [python, limited]



### Graph generator

- Given math function, graph is generated in the output [python, limited]

**Other projects** in C++ without UI (Bus Reservation System, **Chess Playing (Forsyth-Edwards Notation)** with output as all possible moves, Magic Square, Modern Periodic Table)

## 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, CSS, Javascript

**Softwares:** Unity3D, LaTeX, AutoCAD, Adobe Photoshop

**Libraries:** C++ libraries (OpenGL)

**Mobile App:** Java, Kotlin, 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

#### **ADDITIONAL COURSES UNDERTAKEN (NPTEL, NASSCOM)**

<b>COURSE NAME</b>	<b>UNIVERSITY</b>	<b>PERCENTAGE</b>	<b>DURATION</b>
<b>Deep Learning</b>	IITM	Will be updated soon	Jul-Oct'18
<b>Artificial Intelligence Search Techniques</b>	IITM	Will be updated soon	Jul-Oct'18
<b>Scalable Data-Science</b>	IIT-KGP	70%	Jul-Oct'18
<b>Design and analysis of Algorithms</b>	IITM	70%	Feb-Mar'18
<b>An Introduction to Probability in Computing</b>	IITM	56%	Feb-Mar'18
<b>Data-structures and Algorithms using Python</b>	CIM	92%	Jul-Sep'17
<b>Computer Organisation and Architecture</b>	IITM	77%	Jul-Oct'17
<b>Fundamentals of Databases</b>	IIT Kanpur	70%	Jul-Sep'17
<b>Programming in C++</b>	IIT-KGP	86%	Feb-Apr'17
<b>Introduction to Modern Application Development</b>	IITM	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) Winner of state level Technical Quiz Competition amongst students from 8 engineering colleges
- 2) Smart-City Hackathon - State level conducted among all engineering colleges across Telangana - Reached final round
- 3) BITS ATMOS - Ethical hacking 2 day seminar and participation in Algomaniac
- 4) Organised 2 day fest, Dhruvamedha'18 and co-ordinated Algomaniac event
- 5) IBM Blockchain Hackathon - Reached final round (IIT-KGP)
- 6) Unity3D workshop at MVSr - Active along the session learning C# and Unity3D Features
- 7) Presented Pac-man game in Project Expo'18 in our college
- 8) Participated in Capgemini Tech Challenge (Tech Quiz, cleared all three rounds)

#### **LANGUAGES KNOWN**

English, Hindi, Telugu, Spanish

