

# KARRI SAI SATISH KUMAR REDDY

COMPUTER SCIENCE AND ENGINEERING ♦ BTECH 4Y

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## EDUCATION

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<b>Bachelor Of Technology In Computer Science And Engg</b> Indian Institute of Technology,Kharagpur, CGPA: 9.01/10.00	July 2015 - present
<b>Intermediate Education, Class XII</b> Narayana Junior College,Andhra Pradesh, 97.4%	June 2013 - April 2015
<b>SSC, Class X</b> Pragathi Little Public School,Andhra Pradesh, 9.7/10.0	March 2012 - March 2013

## WORK EXPERIENCES

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<b>Software Engineering Intern , Intuit</b> <i>Aurora Adaptor</i>	May 2018 - July 2018
<ul style="list-style-type: none"><li>· Involved in design and development of a module called adaptor which consumes data from Aurora mysql database instances using Debezium,a kafka connect based platform.</li><li>· The designed Adaptor was fault tolerant,highly available and can be used for any mysql database.</li><li>· Used SMT to convert the consumed data to required schema and pushed to kafka in real time.</li></ul>	

## PROGRAMMING ACHEIVEMENTS

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Stood 231st in **ACM-ICPC(2017) Online Qualifiers** which had a participation of around 3300 teams  
Runner-up in the event **SourceCode**, held in Kshitij 2018, IIT Kharagpur  
Bagged 3rd position in **CodersBit** conducted by InterviewBit among all students of IIT Kharagpur  
Qualified for the **SnackDown 2017 Online Elimination Round**(pre-final) by competing with 3300 teams

## ACADEMIC ACHEIVEMENTS

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Secured 8th Rank in JEE ADVANCED 2015 in OC-PH category.  
Secured 1st Rank in JEE MAINS(B.Tech) 2015 in OC-PH category with a percentile of 99.33.  
Secured a rank of 662 in APEAMCET 2015 in General Category.

## PERSONAL PROJECTS

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<b>In-tweeto-lysis , Intuit</b> <i>Intuit interns' hackathon</i>	July 2018
<ul style="list-style-type: none"><li>· Implemented an ML Model which classifies the real time tweets on intuit into different teams to which it is most suited with an accuracy of about 90%.</li><li>· Used sentimental analysis to get the most negative tweets so that the respective team can be alerted.</li><li>· Generated a real time piechart which depicts the statistics of negative and positive tweets each team got.</li></ul>	

## SKILLS AND EXPERTISE

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<b>Languages</b>	Fluent in C, C++ : Experienced in Python,Java
<b>Tools/Libraries</b>	Experienced in TensorFlow, Git, NumPy, Pandas, MySQL, AWS, Docker, Kafka, Confluent, Android Studio

## ACADEMIC PROJECTS

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### **Hospital Management System** *Software Engineering Lab*

March 2017

- Developed a software in java using Swing Package which can be used by Doctors, Patients and Receptionist.
- Functionalities include registration-login module for every user, generate the medical bills, assign doctors to patients,write report to the patients,view the Doctor's Report and Bills paid.

### **Amazon Outlivers** *Intelligent Game Design*

Sep 2017 - Nov 2017

- Developed a 3D survival game with Unity using various AI techniques to generate intelligent behaviors in non-player characters (animals).
- Implemented path planning using A-star,priority based blending of steering behaviours,movement algorithms like seek,flee,wander etc and collision avoidance using ray casting.

### **Ray Tracing on triangle meshes** *Computer Graphics*

March 2018 - April 2018

- Generated an animated GIF by using ray tracing on the objects in the scene while rotating them smoothly.
- Implemented Ambient,Spherical,Diffuse Illuminations along with shadows for realistic effect.

### **Memory Resident Unix like File-System** *Operating Systems Lab*

March 2018

- Implemented a memory resident Unix-Like file system (MRFS) that can be accessed using a library of APIs in C.
- The APIs include creating a file system, copy files from disk to file system and vice versa, create, open, read, write and remove files, create, remove and change directories, change permissions for files etc.

### **Transport Wrapper** *Networks Lab*

March 2018

- Designed and implemented a transport layer wrapper similar to google's QUIC protocol using socket programming.
- Implemented flow control, congestion control following various optimizations like slow start, fast recovery, fast retransmission over UDP services.

## COURSEWORK INFORMATION

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<b>Completed</b>	Algorithms*, Software Engineering*, Operating Systems*, Computer Graphics*, Computer Networks*,Machine Learning,Intelligent Game Design, Compilers*, Computer Organisation and Architecture*, Discrete Structures
<b>Ongoing</b>	Artificial Intelligence, Theory of Computation, Parallel and Distributed Algorithms, Image Processing
<b>Online</b>	Deep Learning (Specialisation),Machine Learning (Coursera), App Development(Udacity).

\* marked courses had a laboratory component as well

## EXTRA-CIRRICULAR

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As a Member of National Sports Organisation - Health and Fitness,participated in activities like Run for Unity,Yoga, Awareness Programme on Disaster Management etc.

Member of Open-Soft and Web Design Team,LBS Hall of Residence.

## DECLARATION

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I hereby declare that all the details furnished above are true to the best of my knowledge and belief.