

MADHUSUDHAN REDDY SHAGAM

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Education

Master's in Computer Engineering Aug'18 - May'20 (expected)

San Jose State University, San Jose, CA – 95192

GPA – 4.0

Relevant Coursework: Enterprise Distributed Systems, Enterprise Software Platforms, Machine Learning, Data Mining.

Bachelor of Technology:

Sept 2012 - May 2016

JNTU, Hyderabad, India

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Database Management.

Languages and Technologies

Programming Lang & web Tech : C, C++, Java, JavaScript, Python, Bootstrap, RESTful APIs, HTML, CSS

Skills : Data Structures and Algorithms, Machine Learning, Data Mining, Deep Learning.

frameworks : React.js, Redux, Node.js, Passport.js, Mocha, Kafka, Express.js, Keras, TensorFlow

Databases : MySQL, MongoDB

Cloud Platforms : Amazon AWS

Other : Git, Eclipse, JMeter, Junit

Work Experience

Infosys **Hyderabad, India**

System Engineer

Jul'16 - Jun'18

- Worked on ETL domain performing Data preprocessing and analysis methods on Informatica.
- Also worked on SAP Tool on Material Management aspect.
- Improved Business Value Add by 15%, implementing Automation over various report generation.
- Provided over 20+ Root Cause Analysis for bug fixes and saved 1-month effective man utilization for Business.
- Worked on multiple critical errors, which added healthy relationship with our Team.

CreativeXperts Consulting Pvt. Ltd.

Hyderabad, India

Software engineering Intern

May'15 - July'15

- Worked as an active backend development team member on building website for a medical institution which involved building, testing and deploying from scratch. Nodejs, java is used.
- Built on reusable code and libraries for future use, optimized for speed and scalability also collaborated with frontend Engineers, product managers and business partners to understand software requirements.

Academic Projects

HomeAway Prototype:

- Developed a website for property rentals which allows owner to post a property, user can book property of his choice, message communication between owner-user is implemented.
- Front end is built using react, redux, backend using Express, Node.js, Kafka as messaging service and MySQL, MongoDB are used as databases. Connection pooling, Express sessions, cookies, routes handling etc. are implemented.

Canvas Prototype:

- Developed a prototype for University Student Canvas, which allows faculty to create assignments, upload files, notes and students register for courses, submit assignments, platform for communication between faculty and student is implemented.
- Front end is built using react, redux, backend using Express, Node.js, Kafka as messaging service and MySQL, MongoDB are used as databases. Connection pooling, Express sessions, cookies, routes handling etc. are implemented.

Image Captioning with Voice using Convolution Neural Networks with Keras Framework:

- Model that generates audio descriptions of images and their regions. Our approach Flickr datasets of images and their descriptions to learn inter-modal correspondences between visual data and language.
- Algorithm implemented based on Convolution Neural Networks over image regions, Recurrent Neural Networks over image descriptions and multimodal embedding that aligns both modalities.
- Working on Continuous video description using Computer Vision.

G-Store Merchandise Revenue Prediction:

- Algorithm implemented to predict G-Store Revenue prediction for particular user based on large Dataset of users provided in Kaggle.
- Performed Data Preprocessing using Pandas and implemented using gradient boosting regressor.