Sudheer Achary

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Education

B.Tech in Computer Science, Master of Science by Research in Center for Visual Information Technology (CVIT), International Institute of Information Technology, Hyderabad.
Secured an aggregate of 7.7 CGPA.

Senior Secondary, *Sri Chaitanya Junior College*, Tirupati.
Secured 93.5% in Board of Intermediate Education.

Secondary, Sri Venkateswara Childhren's High School, Tirupati.
Secured 93.5% in SSC Board Examination.

Experience

May-July 2019 — **Software Engineering Internship**.
worked as a software developer on azure technologies with data compliance team in **Microsoft**

January–April 2019 — **Teaching Assistant**.
Teaching Assistant for the course **Optimization Methods** (OM). *Spring 2018-19*

August–December 2018 — **Teaching Assistant**.
Teaching Assistant for the course **Statistical Methods in Artificial Intelligence** (SMAI). *Monsoon 2018-19*

January–Present 2018 — **Research Assistant**.
Pursuing master degree under **Prof. Vineet Gandhi** on Deep Learning in Computer Vision.

Projects

Summarizing-Scientific-Articles, *NLP*, further references.
Implemented Summarizing Scientific Article: Experiments with relevance and rhetorical status (*Cambridge University*) *Python, XML, NLTK, Gensim*.

MeshFlow Video Stabilization, *computer vision*, further references.
Implemented MeshFlow - A Minimum latency online video stabilization paper (*Microsoft Research Asia ECCV 2016*) *Python, Numpy, OpenCV, cvxpy*.

Manga Colorization, *computer vision*, further references.
Manga Colorization method based on conditional Generative Adversial Networks (cGAN), Image Segementation, Other post-processing techniques. *Python, Keras with Tensorflow Backend, OpenCV, Matlab*.

Client-Server chatroom, *networking*, further references.
A client-server chatroom model which supports upto N clients at one time, users can create, add, leave, reply, share files in chatroom *C++*.

Flat-B Compiler, *compilers*, further references.
Flat-B is a Programming Language mainly consists of declaration block where all the used variables are declared, code block consists of program logic expressed in multiple arithmetic expressions, assignments, different kind of loops in *C++, flex, bison*.

Linux Shell, *operating systems*, further references.
Implemented Bash-like shell using cystem calls in *C Programming Language*. Some features are Piping, I/O Redirection, Suspending the active processes, bring suspended/background jobs to foreground etc.

Utility scoring of product reviews, further references.
predicts utility score i.e the usefulness of a review given by the user for a product on a scale 0-1 *Python, Scikit-Learn, Keras, Scipy*.

Fast panorama stitching on mobile devices, *image processing*, further references.
fast image stitching approach which can combine a set of aligned images into one composite image with low memory consumption *Matlab, OpenCV*.

Bloxorz Game, *graphics*, further references.
A miniclip game "Bloxorz" using Open-GL 3D graphics in *C++, openGL environment*.

Relevant Courses

Graphics	Linear Algebra
Computer Vision	Digital Image Processing
Optimization Methods	Differential Equations
Digital Signal Analysis and Applications	Statistical Methods in Artificial Intelligence
Compilers	Operating Systems
Algorithms	Data Structures

Skills

Basic	HTML, CSS. **Frameworks:** Laravel
Intermediate	Linux, C/C++, MySQL, OpenGL, OpenCV, GIT
Advanced	MATLAB, Python. **Frameworks:** Keras

Additional Details

- Shortlisted for Indian Statistical Institute (ISI), Banglore
- Secured first prize in 2nd Andhra Pradesh Science Congress Paper presentation on Renewable Energy Resources conducted in 2009
- Selected for Zonals in Volley Ball to represent our school in district volley Ball Competitions in 2010
- Secured prizes in Violin and Piano competetions