

BHARGAV SRINIVASAN

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA

Master of Science in Computer Science

Los Angeles, CA

Aug 2017 - May 2019

- Courses: Analysis of Algorithms, Foundations of Artificial Intelligence

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bachelor of Engineering in Computer Science

Bangalore, India

Aug 2013 - Jun 2017

- Secured 78.3% and a First Class with Distinction
 - Courses: Design and Analysis of Algorithms, Data Structures with C, Database Management Systems, Computer Organization, Computer Networks
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PROFESSIONAL EXPERIENCE

- **Research Intern**, at Robert Bosch Engineering and Business Solutions (RBEI), India *Aug 2016 - May 2017*
 - Involved in the development, optimization and deployment of a deep learning convolutional neural network (CNN) algorithm, to detect the condition Diabetic Retinopathy in the retina of the eye. I trained the model on over 80,000 images of retina scans of patients and achieved an improved accuracy of 92%.
 - Researched and developed methods to find regions of hemorrhages and exudates in the eye using Regions with CNN (R-CNN).
 - Worked on a number of machine learning tools including Theano, Lasagne, Caffe, Keras and TensorFlow. Deployed the project on AWS, using Flask and later Django to host the program and handle the HTTP requests.
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TECHNICAL AND PROGRAMMING LANGUAGE SKILLS

- **Programming Languages:** C, C++, Python.
 - **Machine Learning Tools:** Theano, Lasagne, Caffe, TensorFlow, Keras, OpenCV, Scikit-learn, NumPy.
 - **Software and Programming Tools:** Flask, Django, Linux, MySQL, SQLite.
 - **Web Technologies:** HTML, CSS, Javascript, AngularJS.
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PROJECTS

- **Sorting Algorithm Visualizer**, a computer graphics project using OpenGL and C++. Visualized various types of sorting algorithms on a randomly generated array of numbers.
 - **Fantasy League Market Watch**, I built a simple Python script to keep a tab on players' rise and fall in price and aid the user in making transfers.
 - **IMDb User Analyser**, a Python script to analyze an IMDb user's ratings of movies and predict ratings of unwatched movies using the library *Scikit-learn*.
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HONORS AND AWARDS

- **Competitive Coding and Debugging Competitions**
 - Won multiple 1st place and 2nd place awards in competitions at university fests.
 - **On-spot Programming Competition**
 - Won 1st place *Anaadyanta* (2016), held at Nitte Meenakshi Institute of Technology, Bangalore, India.
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OTHER ACHIEVEMENTS

- **Chief Editor**, lead the editorial and design team for the annual CS Department Magazine "Continuum".
 - **Coding event host**, hosted and judged an intra-college coding competition in the CS departmental fest "4D".
 - **Chief Designer**, designed posters, banners and brochures for multiple college events in my second and third year and co-designed the college magazine "Brindavanam" using Adobe Photoshop, Illustrator and InDesign.
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