

BHARGAV SRINIVASAN

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA

Master of Science in Computer Science (GPA: 4.0)

Los Angeles, CA

August 2017 - May 2019

- Courses: Analysis of Algorithms, Foundations of Artificial Intelligence, Applied NLP, Web Technologies.

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bachelor of Engineering in Computer Science

Bangalore, India

August 2013 - June 2017

- Secured 78.3% and a First Class with Distinction

PROFESSIONAL EXPERIENCE

- **Software Developer Intern**, at *Emotive* May 2018 - August 2018
 - Emotive helps brands retain their customers through personal relationships over text message.
 - Developed REST APIs for the Emotive messaging platform to communicate with the backend server, using Django. Used Twilio API to handle messaging and Google NLP to obtain customer feedback sentiment.
 - Streamlined integrations with customer support tools such as Zendesk and Freshdesk for brands.
 - Designed the core feature called Sequences, where brands can schedule periodic texts to customers to obtain feedback, send reminder messages or recommend new products. Built schedulers using Celery and RabbitMQ.
- **Research Intern**, at *Robert Bosch Engineering and Business Solutions (RBEI), India* August 2016 - May 2017
 - Developed, optimized and deployed a deep learning convolutional neural network (CNN) algorithm, to detect the condition called Diabetic Retinopathy in the retina of the eye.
 - Trained the model on over 80,000 images of retinal scans and achieved an improved accuracy of 92%.
 - Researched and created methods to find regions of hemorrhages and exudates in the eye with R-CNN (Regions with CNN).
 - Programmed with several machine learning tools such as Theano, Lasagne, Caffe, Keras, and TensorFlow.

SKILLS

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

PROJECTS

- **Marvel Character ChatBot - Hacktech 2018 (Caltech)**
 - Built an educational chat-bot app for kids to interact with their favorite marvel superheroes.
 - Implemented with Marvel API and Microsoft Cognitive Services API to create the chatbot.
- **Sorting Algorithm Visualizer**
 - Visualized various types of sorting algorithms on a randomly generated array of numbers with OpenGL and C++.
- **IMDb User Analyser**
 - Programmed a Python script to analyze a user's movie taste on IMDb.
 - Predicted ratings of unwatched movies by implementing Scikit-learn and Matplotlib.
- **Fruit Rage**
 - Built a game-playing AI agent in C++ to determine the best next move for a player up to 9 moves ahead.
- **Simple-Blockchain**
 - Built an interactive web application to demonstrate the working of a simplified blockchain.
 - Developed using HTML, CSS, AngularJS and SHA-256 javascript library for encryption.