

Sainag Shetty

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EDUCATION

North Carolina State University Raleigh, NC

May 2019

- *Master of Science in Computer Science; GPA: 3.8/4.0*

Courses: Game AI, Algorithms, Advanced Data Structures, Automated Learning and Data Analysis

University of Mumbai Mumbai, India

May 2017

- *Bachelor of Engineering in Computer Engineering; GPA: 9.11/10.0*

Courses: Operating Systems, Distributed Systems, Data Warehousing and Mining, Artificial Intelligence

EXPERIENCE

Lucidworks Inc.

Raleigh, NC

- *Software Engineer Co-op — Data Scientist*

Feb 2019 - Present

- Part of the Research & Development headed by Dr Chao Han. Working on the Question-Answering system for enriching Solr using Deep Learning technologies
- Rebuilt the entire product module into Docker container. Reduced the environment creation time for deployment
- Developing Python based API (RESTful Web Service) to expose Deep Learning functionality using Flask
- Python ◦ Docker ◦ Spark ◦ AWS: EC2 - EBS ◦ Flask

North Carolina State University

Raleigh, NC

- *Graduate Researcher under Dr Nagiza Samatova in collaboration with Stanford Medicine*

Aug 2018 - Dec 2018

- Developed an autoencoder and Deep Convoluted GAN models for data augmentation of Brain MRIs and classification
- Implemented a skull-stripping approach using a u-net architecture to improve the segmentation of tumors
- Python ◦ Pandas ◦ Deep Learning ◦ Keras ◦ Tensorflow ◦ CUDA

ZS Associates

San Francisco, CA

- *Technology Analyst - Developer Intern*

June 2018 - Aug 2018

- Developed a semantic parser feature that 'intelligently' swaps words for synonyms used for enriching text in the news feed of the App
- Improved data mining tools to provide better business intelligence insights by implementing data science algorithms on Pharmaceutical data
- Collaborated across teams to generate a knowledge base for the development of the domain-specific Chatbot
- Python ◦ NLTK ◦ AWS: EC2 - S3 ◦ MySQL ◦ Tableau ◦ Pandas

Hippily Technology







Mumbai, India

- *Software Engineer Intern*

June 2015 - July 2015

- Improved front-end features and User Interface designs across the Android application of Hippily
- Developed and Deployed a feature into production which allowed users to click a picture and store it on the Hippily server
- Java ◦ Android ◦ GCP ◦ JavaScript

PROJECTS

- **Scheduling algorithm - Personalized task scheduling bot:** (Python, MongoDB, NodeJS, Google Calendar API)  
 - Developed an algorithm, working in a team of 4 to generate weekly schedules based on pending tasks and dependencies between tasks, and export the schedule directly to Google Calendar.
- **Reinforcement Learning - Simulating Game Agent using Q-Network:** (Python, Tensorflow, Keras)  
 - Developed a convolutional neural network, trained with a variant of Q-learning with inputs as raw pixels producing an value function estimating future rewards
- **Database Management - Car Service Database System:** (Java, Oracle, JDBC-ODBC) 
 - Developed a Java application with Oracle relational database to tracks and manages car service information
- **Computer Vision and APIs - Object detection and estimation:** (Python, OpenCV, R-CNN, APIs) 
 - Designed a system to detect everyday object(s) based on the YOLO framework and provide purchase links for the recognized object(s) from Amazon
- **Multi-threaded Program - Block Downsampling:** (C++, OpenMP, Boost: Multi-array)
 - Wrote a program to downsample d-dimensional image blocks efficiently by multi-threading using the OpenMP library

SOFTWARE SKILLS

- **Programming Languages:** Python, Java, C++, R, NodeJS
- **Tools:** AWS, Hadoop MapReduce, Tableau, Spark, REST, MySQL, MongoDB, Git, Docker
- **Operating Systems:** Windows, Linux, MacOS
- **Web Development Languages:** PHP, JavaScript, NodeJS, HTML, CSS, Ruby on Rails