

Sainag Shetty

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EDUCATION

North Carolina State University
MASTER'S IN COMPUTER SCIENCE
Expected May 2019 | Raleigh, NC
Cum. GPA: 3.8/4.0

University of Mumbai
BACHELOR'S IN COMPUTER ENGINEERING
May 2017 | Mumbai, India
Cum. GPA: 9.11 / 10.0

COURSEWORK

Graduate

- Building Game AI
- Software Engineering
- Software Security
- Algorithms
- Data Driven Decision Making
- Advanced Data Structures
- Automated Learning and Data Analysis

Undergraduate

- Distributed Systems
- Operating Systems
- Data Warehousing and Mining
- Object Oriented Programming Methodology
- Artificial Intelligence
- System Programming and Compiler Construction

SKILLS

Languages

Python • C++ • R • Java • Node.js • C

Databases

MySQL • MongoDB • NoSQL • Oracle • Postgres

Frameworks & Tools

AWS • Hadoop • Tableau • Spark • Spring • REST • NetBeans

Web Development

JavaScript • PHP • HTML • CSS

Operating Systems

MacOS • Linux • Windows

PUBLICATIONS

Shetty, Sainag, et al. "Real time object detection and recognition and estimation of price of the object."

International Journal of Research in Science & Engineering Special Issue 7-ICEMTE March 2017 📄

EXPERIENCE

Lucidworks Inc. | SOFTWARE ENGINEER CO-OP

Feb 2019 – May 2019 | Raleigh, NC

Scala • Spark

- Part of the Search and Discovery project led by Dr. Chao Han and team

North Carolina State University | INDEPENDENT RESEARCHER

Stanford Medicine | Advisor: Dr. Nagiza Samatova | Aug 2018 - Dec 2018

Python • Deep Learning • Pandas • Keras • Tensorflow • CUDA

- Identified techniques to efficiently to predict the survival rate of cancer subjects
- Implemented a Deep Convolutional Generative Adversarial Network to perform unsupervised learning on the MRI data
- Developed an autoencoder model for reconstruction of Brain MRIs and classification
- Implemented a skull-stripping approach using a u-net architecture to improve the segmentation of tumors

ZS Associates | TECHNOLOGY ANALYST - DEVELOPER INTERN

June 2018 – Aug 2018 | San Francisco, CA

Python • NLTK • AWS • MySQL • Tableau • Pandas

- 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

Hippily Technology | SOFTWARE ENGINEERING INTERN

June 2015 – July 2015 | Mumbai, India

Javascript • HTML/CSS • GCP • MySQL • Git • Android

- Improved front-end features and UI/UX 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

PROJECTS

Scheduling algorithm - Personalized task scheduling bot 📅🔗

Node.js • Python • AWS • Google Calendar API • MongoDB • Slack

- 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 • Reinforcement Learning

- 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

- Developed a Java application with Oracle 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

Web App Development - Article Saving Application 🔗

PHP • JavaScript • SQLAlchemy

- Created a web application where the users can store online news articles which is stored offline and without any clutter