

Shashwat Sanghavi

75 Saint Alphonsus St, Apt 0211, Boston, MA 02120

✉ sanghavi.s@husky.neu.edu • 📞 617.893.8601 • 🏠 srsanghavi.com • 🌐 shashwatsanghavi

Available for Coop / Internship position from May, 2018

AWARDS & ACTIVITIES

2016

Gold Medal for Academic Excellence
Gandhian Young Technological
Innovation (GYTI) Award for CheckIt
Innovative Trainers Award for
Kahinee

2015

Founded and served as a Chair at
Ahmedabad University student's
branch of IEEE

PUBLICATIONS

Patel R, Sanghavi S, Gupta D, Raval
MS. CheckIt-A low cost mobile OMR
system. InTENCON 2015-2015
IEEE Region 10 Conference 2015
Nov 1 (pp. 1-5). IEEE.

SKILLS

Programming

C • Java • C++ • Python • PHP
Matlab • Android • HTML • CSS
MySQL • \LaTeX • Shell • Native
Android Programming • JavaScript

Hardware

Arduino • RaspberryPi

COURSEWORK

Graduate

- Program Design Paradigms
- Robotics Science and Systems
- Algorithms (pursuing)
- Natural Language Processing (pursuing)

Undergraduate

- Introduction to Programming
- Object Oriented Programming
- Database Management System
- Operating Systems
- Machine Learning
- Cloud computing
- User centered design
- Embedded systems
- Digital signal processing
- Software Engineering
- Advance Data Structures and Algorithms

EDUCATION

Northeastern University | Boston, MA

Candidate for MS in Computer Science
GPA: 3.83

Sep, 2017 - May, 2019 (Expected)

Ahmedabad University | Ahmedabad, GJ, India

BTech in Information & Communication Tech
Cum. GPA: 3.61 | Gold Medal

Aug, 2012 - May, 2016

EXPERIENCE

CheckIt | Ahmedabad, India

Nov, 2015 - Jun, 2017

Founder, Designer and Developer

- Devised and published an Android application on Google play to check bubble sheets (OMR) by a mobile phone
- Implemented the concepts of image processing and computer vision using Android programming, OpenCV & Python
- Eliminated the use of hardware scanners for OMR with an accuracy more than 99.5%

Ahmedabad University | Ahmedabad, India

Aug, 2016 - May, 2017

Full-Time Teaching Assistant

- Assisted for the courses on Introduction to Programming, Machine Learning, Embedded Systems and Operating Systems
- Developed easy to understand course material demonstrating concepts in graphical manner to facilitate students in their studies

Venture Studio | Ahmedabad, India

Nov, 2015 - May, 2016

Student Fellow

- Designed a cloud telephony based Interactive Voice Response System named **Kahinee** to increase health literacy among the rural residents
- Developed it using PHP, code ignitor, cloud telephony & Microsoft Azure.
- Tested it in collaboration with Barakat Bundle, Indian Institute of Public Health and SEWA rural (Gujarat, India) where the system successfully handled 78 calls

PROJECTS

VisionEd - A visual programming tool for Computer Vision

Dec, 2016 - Feb, 2017

- Devised a visual programming platform to develop computer vision applications
- Enabled it to perform more than 50 functions of open Computer Vision library
- Developed this using JavaScript, python, openCV, Google Blockly, HTML & CSS
- Equipped it to output a python code to perform desired computer vision operations

Simulation of JPEG image compression

Jul 2015 - Nov 2015

- Simulated JPEG compression in MATLAB, after understanding its fundamentals
- Learned and implemented DCT, iDCT, quantization, zigzag traversal, run length encoding & decoding to compress a raw image

Face detection in FULL-HD video in real time

Jan, 2015 - Apr, 2015

- Implemented an extension of Viola Jones algorithm to detect multiple faces using OpenCV and Python
- Obtained 92% accuracy with the speed of 46 fps in FULL HD video
- Explored other face recognition algorithms like eigenfaces and artificial neural networks to identify the faces