Shashwat Sanghavi

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Education

Northeastern University │ **Boston, MA, USA**

CCIS, candidate for Master of Science in Computer Science   *Sep, 2017 - May, 2019 (Expected)*

- **Relevant courses:** Program Design & Paradigm, Robotics Science and Systems

Ahmedabad University │ **Ahmedabad, Gujarat, India**

B.Tech. in Information & Communication Technology   *Aug, 2012 - May, 2016*

- **Relevant courses:** Communication Skills, Literature Studies, Introduction to Business Management, Engineering Ethics, Database Systems, Machine Learning, Algorithm for Big data & Optimization, Algorithms, Cloud Computing, Embedded Systems, User Centered Design, Discrete Mathematics
- **Activities:**
  - Founded and Volunteered as a Student branch Chair at IEEE students' branch of Ahmedabad University in 2015.
- Received Gold Medal for 1st rank during undergraduate program

Skills

Tools	: MS Excel, MS Word, MS Powerpoint, MS Access, Audacity, Adobe Lightroom , Adobe Illustrator
Database	: mysql, mongoDB
Programming	: C, C++, JAVA, MATLAB, Php, JavaScript, Latex, Android programming, Native android programming
Hardware	: Atmega Microcontroller, Arduino, RasberryPi
Operating-System	: Linux, Windows 10, Windows 7, macOS

Experience

CheckIt Go │ **Ahmedabad, India**

FOUNDER, DESIGNER & DEVELOPER   *Nov, 2015 - Jun, 2017*

- Devised an Android application to check bubble sheets by a mobile phone
- Learned and applied the concepts of image processing and computer vision, Android programming, OpenCV & Python
- Minimized the price of OMR checking by nearly 100% with an accuracy more than 99.5%
- Co-authored a paper, which got published in IEEE explore and IEEE region 10 international conference.
- Received a **national award** for developing cost efficient technology.

Ahmedabad University │ **Ahmedabad, India**

FULL-TIME TEACHING ASSISTANT   *Aug, 2016 - May, 2017*

- Assisted for the courses on Introduction to Programming, Introduction to Computational Programming, Machine Learning, Embedded Systems and Operating Systems
- Helped students in understanding lab, solving their queries and carrying out their course projects

Venture Studio │ **Ahmedabad, India**

STUDENT FELLOW   *Nov, 2015 - May, 2016*

- Developed a cloud telephony based Interactive Voice Response System named **Kahinee** using JAVASCRIPT, PHP, code ignitor, cloud telephony & Microsoft Azure to increase health literacy among the rural residents
- Tested the system in collaboration with Barakat Bundle, Indian Institute of Public Health and SEWA rural (Gujarat, India) where the system successfully handled 78 calls
- **Press**: "HEALTH TIPS ARE JUST A CALL AWAY." Ahmedabad Mirror, 1 Mar. 2016.

Projects

VisionEd - A visual programming tool for Computer Vision │ **Ahmedabad, Gujarat, India**   *Jan, 2017*

- Ideated, designed and built a platform to develop computer vision applications using visual programming
- Developed this in a Hackathon using JavaScript, python, openCV, Google Blockly, HTML and CSS in a team of 3
- Enabled it to perform more than 50 functions of open Computer Vision library

Face detection in FULL-HD video in real time │ **Ahmedabad University**   *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