Keval Khara

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EDUCATION

Master of Science in Computer Engineering **Sept'17 - Jan'19**
College of Engineering, Boston University

- Coursework: Algorithms (CS 330), Artificial Intelligence (CS 640), Machine Learning (CS 542), Cloud Computing (EC 528), Product Design (EC 601), Design by Software (EC 602), Computer Engineering Fundamentals (EC 605)

Bachelor of Engineering in Electronics and Telecommunication **July'13 - June'17**
Shah & Anchor Kutchhi Engineering College, University of Mumbai

EXPERIENCE

Software Development Engineer, **BU Spark!**, USA **Jan'18 – Present**

- Developing a Recommender System for an E-Commerce Company.

Research Assistant, **Boston University**, USA **Jan'18 - Present**

- Working with Prof. Renato Mancuso on developing an Autonomous Race Car. My research and contributions are primarily related to the Computer Vision principles involved in Autonomous Vehicles.

Embedded Software Intern, **Eduvance**, India **June'16 - July'16**

- Assisted in developing customized solutions for projects on Embedded Systems and Internet of Things, worked on Linux OS and used C++ as the programming language. Contributed to the projects using the ARM mbed platform.

PROJECTS

3-D Gesture Controlled Game Against AI **Nov'17**

- Developed a 3-D gesture controlled game in 12 hours at HackWITus 2017, using Unity Game Engine and Myo armband. The Myo armband is used to move and attack the AI bots using different hand gestures. AI bots are programmed to constantly search for the player to attack using Predictive Modeling and Pathfinding Algorithms.

Local Social Networking Android Application **Oct'17 - Nov'17**

- Developed an Android application for social networking using Google's Firebase and Android Studio. This application is essentially useful for events and advertisements. Used Open Data to display valuable information to the users about the neighborhood. Sorted the events according to the preference of the users for better user retention.

Face Recognition and Verification Software **Oct'17**

- Developed a web application in less than 24 hours at BostonHacks Fall 2017, which successfully detects and recognizes a person's face and displays information about the person from the database. Integrated the OpenCV library in the back-end of our website which detects the face using Haar Cascade Classifier, and recognizes the face using the Eigenfaces Algorithm. The website was developed using HTML, Django and MySQL.

RFID and GSM based Patient Monitoring System **Aug'16 - Feb'17**

- Implemented a project which continuously monitors a patient-at-home's pulse rate and temperature, and alerts the nearby emergency services using the GSM module. Implemented an RFID reader for unique identification of every patient. Developed a website using PHP, CSS and MySQL for ease in maintaining and updating a patient's medical records.

Multinode Wireless Data Acquisition System **June'16**

- Developed a data acquisition and logging system using multiple sensor nodes and a single receiver which logs the data. Communication was achieved using an nRF24L01P trans-receiver pair.

Custom Home Automation Controller using PSoC Bluetooth Low Energy (BLE) **May'16 - June'16**

- Using Cypress Programmable System-on-Chip, developed a custom BLE profile to control various digital appliances using Bluetooth Low Energy.

TECHNICAL SKILLS

- Programming Languages: Python, C++, Java, C, C#, HTML, PHP, XML, SQL, Assembly language, Verilog.
- Platforms: AWS, Android Studio, Hadoop, MySQL, MATLAB, Microsoft Visual Studio, WordPress, ASP.NET, Vivado.

POSITIONS OF RESPONSIBILITY

- **Event Manager** at the Undergraduate College of Engineering, organized and managed various events like Robotics, C++, Python, Java Programming Workshops, tournaments for Soccer and Cricket during college festivals. Learned to lead a team and work under rigid deadlines.
- **Educator** at Jayantilal Municipal School, taught computer basics and Microsoft Office Applications. Introduced the students to programming languages like C++ and Python.