

# Vaibhav Shelke

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**OBJECTIVE** To obtain a career that will allow myself to take full advantage of my passion and experience in software engineering and development operations.

**EDUCATION** *B.Tech - Software Engineering* July 2014 - Present  
SRM University, Kattankulathur, Tamil Nadu, India.  
• CGPA **8.129/10 (Till 6th Semester)**

**TECHNOLOGY SKILLS** *Languages:* C++, Java, Python.  
*Tools/Frameworks:* Django, Flask, Java Swing, Java Networking, Digital Ocean, Github, Heroku, Bootstrap, LAMP Stack.  
*Databases:* MongoDB, MySQL.  
*Hardware Technologies:* RaspberryPi, Arduino, Teensy.

**EXPERIENCE** **SRM Mars Rover Team:** (*Programming Team Lead*) Oct 2016 - Present  
The team participates in annual competition University Rover Challenge held in Utah, USA. Currently I work in the coding domain of the team and am responsible for the control systems and integration of the Rover's electronic components.

- Developed autonomous drive algorithm for the rover to navigate the rover between given GPS coordinates on a open terrain.
- Developed the ground station software for displaying the status of the rover in real-time.
- Implemented image processing algorithm used by the rover to traverse across hurdles, such as gates.
- Developed algorithm for controlling a 6-DOF robotic arm.

**SRM Search Engine:** (*Junior Backend Developer*) Aug 2016 - Nov 2016  
A General Purpose Search Engine, funded by National Internet Exchange of India. It is based on Flask micro web application framework.

- Developed a web scraper to scrape data from various websites and store it in MongoDB.
- Used Zomato's REST API to enlist nearby restaurants based on user's current location retrieved from the web browser.

**PROJECTS** **Game of Life**  
Implemented John Conway's cellular automaton in JAVA using Swing GUI tools. The simulation allows a user to set the initial state of the grid, after which the next generations are rendered in accordance with the automaton rules.

**Morse-Code Generator**  
It's a C++ program which uses a Binary Tree to generate Morse Code from the given string.

**Chat Program**

It is simple desktop chat application written in Java Swing which is light weight and portable.

**URL Shortener**

It is a simple scalable URL Shortening website written in PHP. (<http://cram.space/>)

**INTERESTS**

Robotics, Machine Learning and Web Development.

**OTHER  
PROFILES**

**GitHub:** <https://github.com/vshelke>

**LinkedIn:** <https://www.linkedin.com/in/vshelke/>

**Portfolio:** <http://vshelke.me/>

**EXTRA-  
CURRICULAR  
ACTIVITIES**

- Participated in National Level Football Festival and represented the team as Captain.
- Awarded certificate of participation for finishing in top teams at IIT Bombay Techfest - Battle Code competition.
- Qualified in Google Code Jam 2016.
- Participated in CII Hackathon 2016.

**PERSONAL  
DETAILS**

- Father's Name: Dnyanadeo Shelke
- Date of Birth: 26th November 1996
- Languages Known: English, Hindi and Marathi.

**PLACE:** CHENNAI

**DATE:** 1 July 2017

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