

## EDUCATION

<b>University of Massachusetts Amherst</b>	Amherst, MA
College of Information and Computer Sciences	<b>Expected Graduation May 2021</b>
Master of Science in Computer Science. GPA: 3.77/4.00	
<b>Shivaji University</b>	Kolhapur, India
Bachelor of Technology in Computer Science and Engineering. GPA: 3.86/4.00	<b>Jul 2012 - May 2016</b>
Awarded Certificate of Merit and Scholarship	

## EXPERIENCE

<b>Freelance Software Engineer</b>	<b>Research Centre Imarat, Hyderabad</b>	<b>Apr 2018 – Nov 2018</b>
<b>Research Project</b>		
<ul style="list-style-type: none"><li>Developed a Python program that increased the frames captured per second(fps) by 370%</li><li>Created a dataset from Terabytes of Infrared and RGB image data for object detection and tracking by using suitable preprocessing, synchronizing, and annotation used by over 5 teams</li><li>Created RESTful Web Application using the Python-Flask framework for deploying Caffe model</li><li>Developed Linux device driver for the Nvidia Jetson TX2 platform, for a PCIE FPGA</li></ul>		
<b>Software Engineer</b>	<b>Persistent Systems, Pune</b>	<b>Nov 2016 – Feb 2018</b>
<b>Forex Settlement and Netting</b>		
<ul style="list-style-type: none"><li>Developed a Java CLI tool used by over 50 testers to orchestrate real-world FOREX transactions</li><li>Prototyped Test-Driven Development System in Java which performed Full-Stack regression testing using Jenkins, Appium, RestAssured, Junit, Maven and Selenium Grid that led to the adoption of CI/CD in the project</li><li>Improved fault tolerance and scalability by migrated existing XML over HTTPS inter-process communication to a Message Queue in Java for over a large amount of transactional data</li><li>Refactored Java code to run on a grid for distributed and concurrent execution of test scenarios achieving a reduction in the test effort by 48%</li></ul>		
<b>Python Consultant, Intern</b>	<b>Harman International, Pune</b>	<b>Sep 2016 – Nov 2016</b>
<ul style="list-style-type: none"><li>Developed Python interface to replace legacy commands in a leading 3D modeling software. Used profiling and foreign function interfacing for interfacing and improving performance</li></ul>		

## PROJECTS

<b>Scene Parsing and Natural Language Processing</b> <a href="https://bit.ly/2umYVvx">bit.ly/2umYVvx</a>	<b>Oct 2019 – Dec 2019</b>
Can a list of objects present in a scene, be used to predict the type of scene (office, kitchen, patio, restaurant)? Used image segmentation techniques, TF-IDF and Neural Networks	
<b>Statistical Analysis of Presidential Campaigns in Massachusetts for 2016-19</b> <a href="https://bit.ly/2RdBOux">bit.ly/2RdBOux</a>	<b>Oct 2019 – Dec 2019</b>
Statistics Course Project How does Massachusetts vote? Which demographics really finance the elections? Used data pre-processing, statistical tests, regression and visualization as an answer	
<b>Evaluation of Energy-Efficient Devices and CNN Architectures for Real-Time Inference</b> <a href="https://bit.ly/2T6aIXj">bit.ly/2T6aIXj</a>	<b>Dec 2018 – Jun 2019</b>
Freelance Project What CNN architectures work with optimal detection/classification performance and power consumption at more than 24FPS on certain embedded devices? Developed a rubric matrix for the same	
<b>License Plate recognition using Raspberry Pi</b> <a href="https://bit.ly/2mo6AoQ">bit.ly/2mo6AoQ</a>	<b>Jul 2016 – Aug 2016</b>
Prototyped license plate recognition system using Google Vision API and Python Regular Expressions	

## TECHNICAL SKILLS

- Python (3 years), Java (4 Years), SQL (4 Years), Linux (3 years), C++, GIT