

## 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  |                                     |
| Courses: Data Structures & Algorithms, Database Design & Implementation, Operating Systems, Machine Learning |                                     |
| <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

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|--|-----------------------------------|----------------------------|
| <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 Java CLI tool used to orchestrate real-world FOREX transactions</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>Developed a Full-Stack regression testing System in Java using Jenkins, Appium, RestAssured, Junit, Maven and Selenium Grid that to prototype CI/CD migration of the project</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</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>Machine learning Inference Pipeline and Aerial Image Dataset Creation</b>   | <b>Apr 2018 – May 2019</b>                          |
| <i>Prototype Development (Research Centre Imarat)</i>  | <a href="https://bit.ly/2T6aIXj">bit.ly/2T6aIXj</a> |
| <ul style="list-style-type: none"><li>Used threaded polling in Python to improve image frame capture to 200+ frames per seconds</li><li>Developed hardware interfacing code and image pre-processing code used by core inference system</li><li>Created a dataset from Terabytes of Infrared and RGB image data for object detection and tracking by using suitable pre-processing, synchronizing, and annotation techniques using python scripting</li><li>Developed a rubric matrix to determine CNN architectures suitable for detection/classification at 24FPS and low power consumption for various embedded devices</li><li>Created RESTful Web Application using the Python-Flask framework for deploying a machine learning model</li></ul> |   |
| <b>Scene Parsing and Natural Language Processing</b>   | <b>Oct 2019 – Dec 2019</b>                          |
| <ul style="list-style-type: none"><li>Compared information retrieval methods, word embeddings, and Neural networks for mapping the correlation between object labels and scenes for refining classification accuracy</li></ul>   | <a href="https://bit.ly/2umYVvx">bit.ly/2umYVvx</a> |
| <b>Analysis of Presidential Campaigns in Massachusetts for 2016-19 using R</b>   | <b>Oct 2019 – Dec 2019</b>                          |
| <i>Statistics Course Project</i>   | <a href="https://bit.ly/2RdBOux">bit.ly/2RdBOux</a> |
| <ul style="list-style-type: none"><li>Analyzed demographics patterns and campaign finances using R programming, statistical tests, and data-visualization</li></ul>  |   |

## TECHNICAL SKILLS

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