

Soham Ghormade

Bridgeville, PA

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<https://ghormadesoham.github.io/>

SKILLS

Programming Languages: Proficient : C++, C# Academic Experience :Python,

Open Source Libraries : sklearn, OpenCV,

Operating Systems :Academic Experience :Linux

Deep Learning Frameworks:TensorFlow, Keras

Open Source Contributions: [Apollo](#)

EDUCATION

Master of Science in Computer Science(Part-Time)

Anticipated Graduation Date: Dec 2021

Georgia Institute of Technology, Atlanta, GA

Current GPA:4.00/4.00

Courses taken

Reinforcement Learning, Machine Learning, Computer Vision, Robotics:AI Techniques

Master of Science in Mechanical Engineering

Dec 2014

Stony Brook University, Stony Brook, NY

Overall GPA:3.73/4.00

Bachelor of Engineering in Mechanical Engineering

May 2013

University of Mumbai, Mumbai, India

Percentage: 75 %(First Class)

EXPERIENCE

Software Developer II, ANSYS Inc., Pittsburgh, PA

Oct 2017 - Present

- Add support for Rapid Results Exploration for beams and shells.
- Refactor existing simulation application to enable better integration with geometry application.
- Create a clean API with minimum dependencies ,organized interfaces into independent components which can be packaged for re-use ,enable ability to switch individual components of the application.
- Apply clean architecture and SOLID principles especially dependency inversion principle.
- Mentor co-ops and interns in their work assignments and shortlist candidates for on site interviews.

Software Developer I, ANSYS Inc., Pittsburgh, PA

Jul 2015-Oct 2017

- Fixed customer defects as well as hang issues to improve overall user experience.
- Included unit tests instead of regressions along with defect fixes to prevent future issues.
- Served as the team's subject matter expert for localization of the product.
- Investigated performance profiles to track down performance degradation hotspots.
- Coordinated communications and served as primary point of contact for one of the teams we work with.

PROJECTS

Reinforcement Learning

Mar 2020

- Replicate research papers (a)to land lunar lander using Deep -Q Networks and (b) study Temporal Difference methods like Q-Learning and TD(λ).
- Tools used:OpenAI Gym, Python, NumPy

Machine Learning projects

Jan 2020

- Analyse performance of algorithms on balanced and imbalanced datasets
- Algorithms used :PCA, SVM, Genetic Algorithms

Digit classification and detection using Convolutional Neural Networks

Dec 2019

- Applied transfer learning on pretrained VGG16 to correctly classify digits in image and video.
- Detected digits using Non Maximal Suppression and sliding window technique.
- Trained on Street View House Numbers dataset to obtain test accuracy of 96%.
- Tools used: TensorFlow, Keras, Python