**Soham Ghormade**

Bridgeville, PA (631)-687-9129 <https://ghormadesoham.github.io/>

**SKILLS**

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

**Open Source Libraries** : sklearn, OpenCV, **Operating Systems** :Academic Experience :Linux

**Deep Learning Frameworks**:TensorFlow, Keras

**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**

**Intro to Operating Systems** Dec 2020

* sockets TODO review
* shared memory file transfer client server systems design
* RPC
* Tools used: C, Valgrind, C++, gRPC,

**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