**Soham Ghormade**

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**SKILLS**

**Programming Languages**: Proficient : C++, C#, Familiar :Python, C

**Open Source Libraries** :OpenCV, pandas, sklearn **Operating Systems** :Familiar :Linux, macOS

**Deep Learning Frameworks**:TensorFlow, Keras **Web Technologies:** TypeScript, Postgres, GraphQL

**EDUCATION**

**Master of Science in Computer Science(Part-Time) Anticipated Graduation Date:** May 2022

Georgia Institute of Technology, Atlanta, GA Current GPA:4.00/4.00

**Courses taken**

Intro to OS, AI Ethics, Machine Learning, Reinforcement 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 , Result Visualization, Ansys Inc., Pittsburgh, PA** Oct 2017 - Present

* Extended voxel based infrastructure for visualization of beams and shells
* Reduced graphics memory footprint by 66% by identifying and removing interior faces for beams.
* Established a pattern for implementing post processing features across full internal software stack (.NET)
* Quickly triage bugs to different teams, when relevant, and triage build issues to avoid work stoppage.
* Evangelized unit testing and TDD within the team, leading by example
* Recruit and mentor interns and double feature delivery output by distributing load

**Software Developer I, Infrastructure, Ansys Inc., Pittsburgh, PA** Jul 2015 - Oct 2017

* Swapped out legacy component with next generation component while minimizing regression impact.
* This action sped up load of input data and allowed for extensibility with downstream components
* Applied clean architecture and SOLID principles especially dependency inversion principle.

**PROJECTS**

**OMSCentral, open source contributor** May 2021 - Present

* Add support to allow users to sort and filter course reviews by difficulty.

**Intro to OS projects** Dec 2020

* Transferred images on the same machine and in a multithreaded distributed system
* Tools used: C, POSIX, Valgrind, C++, gRPC

**Reinforcement Learning** Mar 2020

* Safely landed a lunar lander agent using Deep Reinforcement Learning.
* Tools used:Python, OpenAI Gym, NumPy

**Computer Vision:Digit classification**  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, Python