Soham Ghormade

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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

- Implemented file transfer using sockets, shared memory and 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