

## Education

<b>State University of New York, Buffalo (UB)</b> <i>M.S. Computer Science</i>	<i>Sept 2021 – Present</i>
<b>Kalinga Institute of Industrial Tech., Bhubaneswar (KIIT)</b> <i>B.Tech. Computer Science</i>	<i>Aug 2014 – July 2018</i>

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## Skills

**Languages:** Proficient in C/C++, Java, Python  
**Developer Tools:** ROS, Git, Matlab, Jupyter Notebook, Visual Studio, Eclipse, Spring Boot  
**Courses:** Operating Sys, Analysis of Algo, Robotics - Planning & Control, Intro to Machine Learning, Natural Language processing, Computer Vision & Image processing, Reinforcement learning

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## Experience

<b>VMware</b> <i>Member of Technical Staff II</i>	<i>July 2018 – Aug 2021</i> <i>Bangalore</i>
<ul style="list-style-type: none"><li>• Worked on the cloud control plane within the Horizon Cloud Services team which manages multiple Horizon Cloud platforms. (C/C++).</li><li>• Worked on designing implementing next-generation image service avatar for Horizon Cloud Services. Working with auto-scalable clusters, Spring Boot-based services guaranteeing zero down-time upgrade, async communication over Kafka, etc.</li><li>• Developed POC for replicating images across Geo-locations using Azure SIG for customized Horizon Cloud workloads.</li></ul>	
<b>VMware</b> <i>Research Intern</i>	<i>June 2017 – Aug 2017</i> <i>Bangalore</i>
<ul style="list-style-type: none"><li>• Worked on leveraging the VMware Blast streaming stack to stream a live application from a self-sufficient docker container. Created services to spin up and destroy customised containers from a web app.</li></ul>	

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## Projects

<b>Recommender System</b>	<i>KIIT   Fall '17</i>
<ul style="list-style-type: none"><li>• A simple python based collaborative filtering engine that recommends movies using the Movielens database.</li></ul>	
<b>Pintos</b>	<i>UB   Fall '21</i>
<ul style="list-style-type: none"><li>• Implemented multi-threading &amp; scheduling/sleep support in pintos. Implemented priority donation and MLFQS advanced scheduler.</li></ul>	
<b>Laser-Based Perception and Navigation with Obstacle Avoidance</b>	<i>UB   Fall '21</i>
<ul style="list-style-type: none"><li>• Implemented obstacle avoidance with Bug2 and Navigation to the goal using RANSAC</li><li>• Implemented A* planning to reach a goal using Euclidean distance as the heuristic cost.</li></ul>	
<b>Predicting Reddit upvotes</b>	<i>UB   Spring '22</i>
<ul style="list-style-type: none"><li>• Crawled Reddit posts using praw, collected/cleaned posts. Performed standardization, one-hot encoding etc.</li><li>• Extracted meaningful features to predict upvotes with Linear Regression and random forests.</li></ul>	
<b>Solving Cartpole &amp; Atari breakout using DQN and its variants</b>	<i>UB   Spring '21</i>
<ul style="list-style-type: none"><li>• Solved a self-defined Grid environment with multiple rewards and obstacles using DQN.</li><li>• Solved Cartpole and Atari breakout using DQN and Dueling DQN.</li></ul>	