

EDUCATION	<b>University Of Massachusetts, Amherst</b> , (Ph.D. - CS) <span style="float: right;"><i>Jan 2018 - Dec 2024</i></span> <b>Columbia University, NewYork</b> , (M.S., CS ) <span style="float: right;"><i>Sep 2011 - Dec 2012</i></span>
PUBLICATIONS	<b>Conference</b> <ul style="list-style-type: none"> <li>• <a href="#">BuildingNet: Learning to Label 3D Buildings</a>: <b>Pratheba Selvaraju</b>, Mohamed Nabail, Evangelos Kalogerakis, Siddhartha Chaudhuri. (<b>ICCV Oral -2021</b> )</li> <li>• <a href="#">Developable Approximation of Neural Implicits via Rank Minimization</a>: <b>Pratheba Selvaraju</b>. (Accepted - International conference on 3D Vision (3DV-2024)) .</li> <li>• <a href="#">OFER: Occluded Face Expression Reconstruction and Ranking</a>: <b>Pratheba Selvaraju</b>, Victoria Abrevaya, Timo Bolkart, Faezeh Amzadi, Ilya Zharkov . (Under submission - Conference)</li> <li>• <a href="#">FORA: Fast-Forward Caching in Diffusion Transformer Acceleration</a>: <b>Pratheba Selvaraju</b>, Tianyu Ding, Tianyi Chen, Ilya Zharkov, Luming Liang. <b>arXiv submission</b></li> </ul> <b>Journal</b> <ul style="list-style-type: none"> <li>• <a href="#">A 3D digitisation workflow for architecture-specific annotation of built heritage</a>: Marisia Deligiorgi, Maria I Maslioukova, Melinos Averkiou, Andreas C Andreou, <b>Pratheba Selvaraju</b>, Evangelos Kalogerakis, Gustavo Patow, Yiorgos Chrysanthou, George Artopoulos . (<b>JASREC -2021</b> )</li> </ul>
RESEARCH INTERNSHIP	<b>Roblox Corporation</b> , San Mateo, CA <span style="float: right;"><i>June 2024 – current</i></span> <ul style="list-style-type: none"> <li>• AccessoryAdapation for avatars</li> </ul> <b>Microsoft - Applied Science Group</b> , Redmond, WA <span style="float: right;"><i>Sep 2022 – Dec 2022</i></span> <ul style="list-style-type: none"> <li>• OFER: Occluded Face Expression Reconstruction and Ranking</li> </ul> <b>Google</b> , Redmond, WA <span style="float: right;"><i>Jun 2022 - Aug 2022</i></span> <ul style="list-style-type: none"> <li>• Worked on LiDAR building semantic labelling of parts and reconstruction</li> <li>• Conducted experiments on real google street view lidar data to extract window positions to be used for training for part label segmentation</li> <li>• Experiments to reconstruct the open surfaces (buildings)</li> </ul> <b>Facebook Reality Labs</b> , Redmond, WA <span style="float: right;"><i>May 2020 - Sep 2020</i></span> <ul style="list-style-type: none"> <li>• Worked on virtual panel placement in synthetic room view in augmented reality setup</li> <li>• Conducted experiments for better placement of the panel with respect to head positions dealing with occlusions and scale of the panel</li> </ul>
PROFESSIONAL EXPERIENCE	<b>IMO, USA (Software Engineer)</b> <span style="float: right;"><i>Mar 2017 – Dec 2017</i></span> Audio quality improvement of the IMO application by suppression of voice interruption and echo. <b>Machine Zone, USA (Software Engineer)</b> <span style="float: right;"><i>Sep 2016 – Jan 2017</i></span> Art tool development for production of game assets using shader programming and 3D graphics <b>Microsoft, USA (Software Engineer)</b> <span style="float: right;"><i>Apr 2013 – Aug 2016</i></span> Full stack developer in Skype for business <b>Amazon, USA (Software Development Intern)</b> <span style="float: right;"><i>May 2012 – Aug 2012</i></span> <b>EMC Corporation(RSA), India (Software Engineer)</b> <span style="float: right;"><i>Aug 2009 – July 2011</i></span>
TECHNICAL SKILLS	Python, C++, Pytorch, OpenGL <a href="#">3D Computer Vision</a> , <a href="#">3D Computer Graphics</a>

PORTFOLIO      **CV-Personal Webpage**([pratheba.github.io](https://pratheba.github.io))  
**LinkedIn**([prathebaselvaraju](#))

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