

EDUCATION	University Of Massachusetts, Amherst, (Ph.D. - CS)	Jan 2018 - current
	Columbia University, New York, (M.S., CS)	Sep 2011 - Dec 2012
	PSG College of Technology, India, (B.E., IT)	Aug 2005 - Jun 2009
PUBLICATIONS	<b>Conference</b>	
	<ul style="list-style-type: none"> <li><a href="#">BuildingNet: Learning to Label 3D Buildings</a>: Pratheba Selvaraju, Mohamed Nabail, Evangelos Kalogerakis, Siddhartha Chaudhuri. (ICCV Oral -2021)</li> <li><a href="#">Developable Approximation of Neural Implicit via Rank Minimization</a>: Pratheba Selvaraju. (Accepted - International conference on 3D Vision (3DV-2024))</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>: Marissia Deligiorgi, Maria I Maslioukova, Melinos Averkiou, Andreas C Andreou, Pratheba Selvaraju, Evangelos Kalogerakis, Gustavo Patow, Yiorgos Chrysanthou, George Artopoulos. (JASREC -2021)</li> </ul>	
RESEARCH INTERNSHIP	<b>Current Projects</b>	
	<ul style="list-style-type: none"> <li><a href="#">3D Generative Modelling of faces from single view occluded image</a>: Pratheba, Selvaraju, Timo Bolkart, Victoria Abrevaya</li> <li><a href="#">High detailed 3D animatable face generation from single view images</a>: Pratheba, Selvaraju, Timo Bolkart, Victoria Abrevaya, Evangelos Kalogerakis</li> </ul>	
	<b>Microsoft - Applied Science Group</b> , Redmond, WA	Sep 2022 – Dec 2022
	<ul style="list-style-type: none"> <li>Worked on 3D face reconstruction from single view image</li> </ul>	
	<b>Google</b> , Redmond, WA	Jun 2022 - Aug 2022
PROFESSIONAL EXPERIENCE	<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	May 2020 - Sep 2020
	<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>	
	<b>IMO, USA (Software Engineer)</b>	Mar 2017 – Dec 2017
	Audio quality improvement of the IMO application by suppression of voice interruption and echo.	
ACADEMIC PROJECTS	<b>Machine Zone, USA (Software Engineer)</b>	Sep 2016 – Jan 2017
	Art tool development for production of game assets using shader programming and 3D graphics	
	<b>Microsoft, USA (Software Engineer)</b>	Apr 2013 – Aug 2016
	Full stack developer in Skype for business	
	<b>Amazon, USA (Software Development Intern)</b>	May 2012 – Aug 2012
TECHNICAL SKILLS	<b>EMC Corporation(RSA), India (Software Engineer)</b>	Aug 2009 – July 2011
	<b>University Of Washington</b> , Seattle, Washington, USA	Jan 2014 – Mar 2014
	<ul style="list-style-type: none"> <li>RealTime fingertip tracking and virtual painting</li> </ul>	
	<b>Columbia University</b> , New York, New York, USA.	Sep 2011 – Dec 2012
	<ul style="list-style-type: none"> <li>XNA Shader Programming :</li> <li>Augmented Reality Mobile game application</li> </ul>	
	Python, C++, Pytorch, OpenGL	
	3D Computer Vision, Machine Learning, 3D Computer Graphics	

PORTFOLIO

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

REFEREES

**Evangelos Kalogerakis**,(University of Massachusetts, Amherst)  
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**Ilya Zharkov**, (Microsoft Research)  
Email: [zharkov@microsoft.com](mailto:zharkov@microsoft.com)