Srinath Ravichandran

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Work Experience

- **SideFX**, Rendering and Lighting Developer, Toronto, CA — 07/2018 - 02/2019
  Worked on adding new rendering functionality within the Mantra renderer.
- **Pixar Animation Studios**, RenderMan Software Intern, Seattle, WA — 06/2016 - 09/2016
  Worked on analyzing and improving curve rendering performance within RenderMan.
- **Dartmouth College**, Teaching Assistant, Hanover, NH — 09/2015 - 11/2016
  Courses: HCI, Rendering Algorithms, Computer Graphics, Computer Vision
- **CVIT - IIIT-H**, Graduate Research Assistant, Hyderabad, India — 08/2011 - 07/2015
  Conducted research in the areas of Computer Graphics and High Performance Computing.
- **Google Summer of Code**, Student Developer, Hyderabad, India — 05/2014 - 08/2014
  Added curve rendering support within the opensource production renderer 'appleseed'.
- **Oracle India Pvt. Ltd**, Quality Assurance Engineer, Bangalore, India — 01/2010 - 07/2011
  Worked in the JDEdwards EnterpriseOne Tools Division.

Education

- **Dartmouth College**, Hanover, NH, USA — 09/2015 - 06/2018
  MS Computer Science
  Relevant Coursework: Rendering Algorithms, Computer Graphics, Deep Learning, Machine Learning
  Human Computer Interaction, Smartphone programming, Operating Systems

International Institute of Information Technology, Hyderabad, India — 08/2011 - 07/2015
MS (by Research) Computer Science; GPA: 9.17/10

- Thesis Topic: **Two GPU Algorithms for Raytracing**
  Relevant Coursework: Parallel Programming, Concurrent Data Structures, Cloud Computing
  Computer Vision, Digital Image Processing

- **Government College of Technology**, Coimbatore, India — 08/2005 - 05/2009
  BE Computer Science; GPA: 8.65/10 - First Class with Distinction

Publications

- Benedikt Bitterli, **Srinath Ravichandran**, Thomas Müller,
  Magnus Wrenninge, Jan Novk, Steve Marschner, Wojciech Jarosz — Siggraph Asia 2018 Technical Papers
  A radiative transfer framework for non-exponential media
- **Srinath Ravichandran** and P.J.Narayanan — Siggraph Asia 2015 Technical Briefs
  Coherent and Importance Sampled LVC-BDPT on the GPU
- **Srinath Ravichandran** and P.J.Narayanan — Siggraph Asia 2013 Technical Briefs
  Parallel Divide and Conquer Ray Tracing

Projects

- **nori-cs187**: Physically based volumetric path tracer developed for the Rendering Algorithms course at Dartmouth.
- **renderbox2**: Fully parallel research oriented uni and bidirectional path tracer on the GPU.
- **foodstar**: An Ingredients-to-Dish android application for all level cooks developed for HCI course at Dartmouth.
- **yalnix**: Developed the core kernel for the yalnix operating system from scratch for the OS course at Dartmouth.

Achievements

- **Rendering Algorithms**: Grand prize winner in the Dartmouth Rendering Competition 2016

Technical Skills

- **Languages and Tools**:C, C++11/14, Java, Python, Android development, CUDA, Matlab, HTML, Javascript, USD, TensorFlow, OpenGL, Visual Studio, NVIDIA Nsight, Intel VTune, Houdini, Git, SVN, Windows, Linux, GDB