

PRADEEP GARIGIPATI

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SKILLS

Software Development
Coding & Scripting
GUI Design

Requirements Analysis
Testing & Documentation
User Training & Support

OOAD & RAD
Debugging & Troubleshooting

TECHNOLOGY SUMMARY

- **Programming:** C/C++(proficient), OpenGL(proficient), GLSL(proficient), Rust(proficient), CUDA(proficient), OpenCL(proficient), MPI(beginner), Python(intermediate), Qt(proficient), Cinder(beginner), Git(proficient), Android(beginner)
- **Software Tools:** GIMP(intermediate), Photoshop(beginner), HDR Shop(intermediate), Matlab(beginner), L^AT_EX(intermediate), Maya(beginner), Renderman(beginner)

EXPERIENCE

- **Independent Software Developer**

Self-Employed | Dec 2015 - Present

Core Services: CUDA, OpenCL & OpenGL programming. Currently, working for ArrayFire.

- **Sr. Software Engineer**

ArrayFire | Jun 2013 - Nov 2015

Development and maintainance of ArrayFire library. Worked on Porting & optimisation projects using CUDA/OpenCL/ArrayFire such as the following:

- ◇ OpenGL rendering tool with MEX interface.
- ◇ Real-time video processing engine with Qt-GUI and OpenCL compute backend.

- **Graphics Programmer**

Visualization Department, Texas A&M University | Sep 2012 - Apr 2013

Worked on an image processing application to handle foreground-background separation.

- **Rendering Programmer**

USC Institute of Creative Technologies | May 2012 - Jul 2012

Worked on the analysis and extraction of subsurface-scattering parameters for an object. This work is published in IEEE Computer Graphics and Applications special issue.

- **Help Desk Assistant**

Open Access Labs, Texas A&M University | Sep 2011 - Apr 2012

- **Assistant Systems Engineer**

Tata Consultancy Services Limited | Jul 2008 - Jun 2010

Provided production support for the web applications deployed on WebSphere Application Server. Automated app deployment on servers, drastically reducing the costs associated.

EDUCATION

- **Master of Science in Computer Science**
Texas A&M University, College Station | May 2013
- **Bachelor of Technology in Computer Science and Engineering**
National Institute of Technology, Durgapur, India | May 2008

PUBLICATIONS

- Pradeep Garigipati, Ergun Akleman: Duotone Surfaces. International Symposium on Computational Aesthetics in Graphics, Visualization, and Imaging, 2012. Annecy, France. 99-106.
- Yufeng Zhu, Pradeep Garigipati, Pieter Peers, Paul Debevec and Abhijeet Ghosh. Estimating Diffusion Parameters from Polarized Spherical Gradient Illumination. IEEE Computer Graphics and Applications, 2013 (To Appear).

CERTIFICATIONS

- Completed IBM Certification as System Administrator, WebSphere Application Server Network Deployment V6.1.
- Completed Green Belt Certification in Six Sigma.