ALOK HOTA

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EDUCATION

PhD in Computer Science, University of Tennessee, 3.92 GPA *2014-present*
Focus on Large Data Visualization–scalable software platforms for interactive
visualization of complex spatio-temporal datasets.

MS in Computer Science, University of Tennessee *2017*

BE in Computer Engineering, Vanderbilt University *2011–2013*

BS in Computer Science, Fisk University *2008–2011*

PUBLICATIONS

Mohammad Raji, **Alok Hota**, Jian Huang, "Scalable Web-Embedded Volume Rendering", LDAV 2017. (equal contribution with Mohammad Raji) *Best Paper Award at LDAV 2017.*

Alok Hota, Mohammad Raji, Tanner Hobson, Jian Huang, "A Space-Efficient Method for Ensemble Analysis and Visualization", EGPGV 2017.

Mohammad Raji, **Alok Hota**, Robert Sisneros, Jian Huang, "Photo-Guided Exploration of Volume Data Features", EGPGV 2017.

EXPERIENCE

Intel Corporation May 2018–present
Graphics Software Engineer *Austin, TX*
· Maintainer for OpenSWR, a high performance open-source software rasterizer

Sandia National Laboratories Summer 2017
Graduate Student Intern *Albuquerque, NM*
· Integration and testing of vectorization method in VTK-m

Sandia National Laboratories Summer 2016
Graduate Student Intern *Albuquerque, NM*
· Development of a method for general-case vectorization in VTK-m for x86 platforms

Intel Parallel Computing Center at Joint Institute for Computational Science Fall 2014–present
Graduate Research Assistant *Knoxville, TN*
· Integration of OSPRay ray tracing rendering engine into the VisIt visualization application

Advanced Computing Center for Research and Education June 2013–July 2014
Professional Programmer *Nashville, TN*
· Developed live depot activity monitor and expanded in-house message queue system

Institute for Software Integrated Systems February 2012–May 2013
Undergraduate Student Researcher *Nashville, TN*

National Oceanic and Atmospheric Administration Summer 2011
Undergraduate Student Intern *Silver Spring, MD*

Fisk University 2009–2011
Undergraduate Student Researcher *Nashville, TN*

SKILLS

Fluent with	**Python**, C/C++, Java, Bash
Knowledgeable with	VisIt, ParaView, VTK, VTK-m, CUDA

SCHOLARSHIPS AND AWARDS

University of Tennessee Athletic Department Graduate Student Award	*2014–present*
Dean's List, Vanderbilt University	*2011, 2012*
Summa cum Laude, Fisk University	*2011*
Provost's List, Fisk University	*2008–2011*