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 integrated in Mesa

Sandia National Laboratories   Summer 2016, Summer 2017
Graduate Student Intern   *Albuquerque, NM*

· Development, integration, and testing of auto-vectorization method 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   Git, Docker, 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*