

ALOK HOTA

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CAREER OBJECTIVE

Dedicated software engineer with graphics and visualization experience looking to broaden the accessibility of scalable rendering technologies to new customers and markets.

EDUCATION

PhD in Computer Science, University of Tennessee 2018
Dissertation: *VaaS: Visualization as a Service*

MS in Computer Science, University of Tennessee 2017

BE in Computer Engineering, Vanderbilt University 2013

BS in Computer Science, Fisk University 2011

PUBLICATIONS

Hota, A., Huang, J., "Embedding Meta Information into Visualizations", IEEE TVCG May 2019. [🔗](#)

Raji, M., **Hota, A.**, Hobson, T., Huang, J., "Scientific Visualization as a Microservice", IEEE TVCG Nov 2018. [🔗](#)

Raji, M., **Hota, A.**, Huang, J., "Scalable Web-Embedded Volume Rendering", LDAV 2017. *Best Paper Award*, LDAV 2017. [📄](#)

Hota, A., Raji, M., Hobson, T., Huang, J., "A Space-Efficient Method for Ensemble Analysis and Visualization", EGPGV 2017. [📄](#)

Raji, M., **Hota, A.**, Sisneros, R., Huang, J., "Photo-Guided Exploration of Volume Data Features", EGPGV 2017. [📄](#)

EXPERIENCE

Intel Corporation May 2018–present
Solutions Architect and Graphics Software Engineer
Austin, TX

- Architect reference hardware and software designs for rendering solutions
- Customer outreach and collaboration with development of the [OSPRay Studio](#) rendering and visualization application
- Collaborate on development of high performance ray tracing libraries - [Open VKL](#) and [OSPRay](#)
- Maintained [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](#) into the [VisIt](#) visualization application

Advanced Computing Center for Research and Education June 2013–July 2014
Programmer
Nashville, TN

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

Languages	C++, Python, C , JavaScript, Shell scripting
Tools and Frameworks	Git, Docker, Bootstrap, ThreeJS, VisIt, ParaView, VTK, VTK-m
Applications	Blender, FL Studio, Photoshop, After Effects, Premiere