

LAKSHMI VERA  
<https://profileio.lakshmananumolu.com>  
anumolu@uwalumni.com

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## ABOUT ME

Sample text written as part of the demo for profileio. Sample text written as part of the demo for profileio.  
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## EXPERIENCE

### Senior Software Engineer

2019 - Present

*Walt Disney Animation Studios, Burbank, CA*

- Present few details and its impact
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### Software Engineer

2017 - 2019

*Dreamworks Animation, Glendale, CA*

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### Research Assistant

2013 - 2017

*Texas A&M, Madison, WI*

- Implemented phase-change capabilities into in-house developed solver to perform two-phase boiling simulations
- Developed fourth order accurate semi-Lagrangian method to solve Hamilton-Jacobi equations that can improve the quality of two-phase fluid simulations in the context of level set methods
- Developed and maintained a fully parallelized two-phase flow solver in C++ with the aid of gradient augmented level set and reinitialization algorithms and Ghost Fluid Method
- Performed a detailed numerical study on interFoam, a two-phase flow solver shipped with OpenFOAM C++ libraries
- Developed post-processing utilities in C++ to achieve photo-realistic rendering for density fields from OpenFOAM results using Mitsuba

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## PATENTS

**Physics based simulations:** Level set method I for artistic simulations (9999998). Level set method II for artistic simulations (9999999).

**Experimental physics:** Novel PIV method to quantify velocity of fluid flow through swirl atomizer (9999997)

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## AWARDS & ACHIEVEMENTS

- Marshal award. *Best paper for demonstrating spray characteristics during so and so configuration.* ILASS, May 2114

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## PUBLICATIONS

Author I, Author II. Made-up title of an article for ProfileIO' demo. *Journal of Computational Physics*, 353:377-406, 2018.

Author I, Author II, and Author III. *Sample Title I Of A Book Made-Up To Give Demo For Profileio*, volume 3 of *Encyclopedia of Two-Phase Heat Transfer and Flow*. World Scientific, 2018.

Author I, Author II, and Author III. Sample title II of an article made-up to give demo for profileio. *Journal of Computational Physics*, 334:81-101, 2017.

Author I, Author II, and Author III. Sample title III of an article made-up to give demo for profileio. *International Journal of Heat and Fluid Flow*, 44:610-623, 2013.

Author I and Author II. Sample title IV of an article made-up to give demo for profileio. *International Journal of Numerical Methods in Fluids*, 73(12):1011-1041, 2013.

Author I, Author II, and Author III. Sample title V of an article made-up to give demo for profileio. *Computational Science & Discovery*, 5:014016: 1-36, 2012.

## VOCATIONAL TRAINING

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**Trainee** 2014

*Animation Studios*

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## PROJECTS

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### ProfileIO

with Lakshman Anumolu 2020 - Present

- Delightfully simple website and resume generator for students, researchers, and engineers
- Sample text written as part of the demo for profileio
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### Project VI

2015 - Present

- Sample text written as part of the demo for profileio
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### Project V

2015 - Present

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## EDUCATION

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University of Wisconsin-Madison,

*Ph.D. Computer Science*

Texas A&M,

*B.S. Computer Science and Mathematics*

## SKILLS

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**Programming Languages:** Fluent: C++, C, Go. Experienced: Python, JavaScript, PHP

**Libraries:** Eigen, NumPy, MPI, etc.

**Tools:** CMake, gdb, valgrind, etc.

## LANGUAGES

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Fluent: English, French

Native speaker: Spanish

## INTERESTS

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Sports: Soccer, Basketball