anumolu@uwalumni.com
https://profileio.lakshmananumolu.com

# Lakshmi**Vera**

## ABOUT ME

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

## EXPERIENCE

**Senior Software Engineer** 2019-Present
*Walt Disney Animation Studios, Burbank, CA*

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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 tosolve Hamilton-Jacobi equations that canimprove the quality of two-phase fluid simulations in thecontext of level set methods
- Developed and maintained a fully parallelized two-phase flow solver in C++ with the aid ofgradient 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 fieldsfromOpenFOAM results using Mitsuba

## 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 quatify velocity of fluid flow through swirl atomizer (9999997)

## AWARDS & ACHIEVEMENTS

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

# PUBLICATIONS

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

Sample title I of a book made-up to give demo for profileio, Author I, Author II, and Author III, volume 3 of Encyclopedia of Two-Phase Heat Transfer and Flow, World Scientific, 2018.

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

Thesis title, Author name, Php thesis, 2020.

Unpublished article title, Author name, Author 2, Author 3. Under review or submitted, 2021.

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

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

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

# VOCATIONAL TRAINING

**Trainee** 2014
*Animation Studios*

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# PROJECTS

**ProfileIO**
with Lakshman Anumolu 2020-Present

- Delightfully simple website and resume generator for students, researchers, and engineers
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**Project VI**
2015-Present

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**Project V**
2015-Present

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# EDUCATION

**Ph.D. Computer Science**
University of Wisconsin-Madison

**B.S. Computer Science and Mathematics**
Texas A&M

## SKILLS

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

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

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

## LANGUAGES

Fluent: English, French
Native speaker: Spanish

## INTERESTS

**Sports:** Soccer, Basketball