

# LakshmiVera

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<https://pjsutar.github.io>

## 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

## PATENTS

**Physics based simulations:** Level set method I for artistic simulations (99999998). Level set method II for artistic simulations (99999999).

**Experimental physics:** Novel PIV method to quantify velocity of fluid flow through swirl atomizer (99999997)

## 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.

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