

Sreeharsha Udayashankar

Graduate Research Assistant

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Education

PhD – Computer Science

University of Waterloo

2021 – Present

MMath (Thesis) - Computer Science

University of Waterloo

2019 – 2021

GPA: 94.5%

Bachelor of Engineering - Computer Science

PES University, Bangalore, India

2013 – 2017

Publications and Awards

- **Falcon - Low Latency Network Accelerated Scheduling**
I. Kettaneh, S. Udayashankar, A. Abdel-Hadi and S. Al-Kiswany – The 3rd P4 Workshop in Europe (EuroP4 2020)
- **Gaming Modeling and Projections – The Impact of CPU Performance**
S. Udayashankar, S. Chandra and D. Cherepacha - AMD Asia Tech Conf, 2019
- **International Master's Award of Excellence: University of Waterloo, 2019**
- **Spotlight Award: AMD, 2017**

Skills

- **Programming:** Python, C, C++ and Java
- **Parallel Programming:** PThreads and OpenMP
- **Data Analysis:** Numpy, Pandas and scikit-learn
- **Web Design:** Bootstrap, D3 and JS

Volunteer Experience

Regional Head

Igniting Young Minds (NGO), 2014 - 2017

Igniting Young Minds is an initiative to help underprivileged children by imparting soft-skill training and raising their awareness about the opportunities available to them.

About Me

I am a graduate student researcher at the Waterloo Advanced Systems Laboratory working under the supervision of Prof. Samer Al-Kiswany. My primary research interests lie in Distributed Systems, Cloud Computing and Operating Systems.

In the past couple of years prior to enrolling in this program, I was a member of the CPU Performance and Workloads team at Advanced Micro Devices (AMD). I have also worked as a student researcher on various projects during my undergraduate studies.

Professional Experience

Design Engineer II

Advanced Micro Devices (AMD), January 2017 – July 2019

I held various positions at AMD ranging from Co-op Engineer up to Design Engineer II. I was a part of the CPU Performance and Workloads team and engaged in driving CPU architectural design using workload performance as an indicator.

- Performance Profiling and Workload Analysis / Characterization
- Performance Modeling – **Published at the AMD Asia Tech Conference 2019**
- CPU Performance Simulations and Instruction Tracing

Summer Intern

Philips, June 2016 – July 2016

I worked on projects involving Machine Learning as well as designed a KPI Dashboard for Engineering Team Performance using WCF Services.

- **Awarded** for exemplary performance

Research Experience

Graduate Research Assistant

University of Waterloo, September 2019 – Present

I am working under the supervision of Prof. Samer Al-Kiswany in the area of distributed systems and networking.

- Accelerating large scale data systems' performance using in-network processing

Undergraduate Research Assistant

PES University, August 2015 – December 2016

I was a part of the Cloud Computing and Big Data (CCBD) Lab working under the supervision of Dr K.V. Subramaniam.

- OpenSim – An open source simulator for OpenStack
- Video Indexing of Football matches and sentiment analysis of football commentary
- Classification of objects in surveillance footage using OpenCV and Python