

HANFEI YU

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EDUCATION

Louisiana State University, Baton Rouge, USA Doctor of Philosophy in Computer Science	June 2021 - Present
University of Washington, Tacoma, USA Master in Computer Science and Systems <i>GPA: 3.96/4.0</i>	Sep 2019 - Jan 2021
Shanghai Jiao Tong University, Shanghai, China Bachelor in Electronic Engineering	Sep 2015 - July 2019

WORK EXPERIENCE

Louisiana State University, Baton Rouge, USA <i>Research Assistant</i> IntelliSys Lab	June 2021 - Present
Louisiana State University, Baton Rouge, USA <i>Teaching Assistant</i> <ul style="list-style-type: none">• CSC 4501 Computer Networks• CSC 3501 Computer Organization & Design• CSC 3102 Advanced Data Structures and Algorithms Analysis• CSC 2259 Discrete Structures• CSC 1350 Introduction to Computer Science	Jan 2020 - June 2020
University of Washington, Tacoma, USA <i>Research Assistant</i> Cloud and Distributed Systems (CDS) Research Lab	Sep 2020 - Jan 2021
University of Washington, Tacoma, USA <i>Teaching Assistant</i> <ul style="list-style-type: none">• TCSS 305 Programming Practicum, Winter 2019• TCSS 422 Operating Systems, Spring 2020	Jan 2020 - June 2020
Intel, Shanghai, China <i>Asia-Pacific Research & Development Ltd</i> <i>Software Developer Intern, UEFI-BIOS Development Group</i> <ul style="list-style-type: none">• Contributed to the development of a UEFI Driver, which works cross-platform on Windows and Linux. The driver functions to filter, extract, and analyze network packets by leveraging an open source library called Pcap. I also helped implement and test new features of the driver.• Wrote Shell/Python scripts to enable automatic driver installation, dependency collection, and product testing using internal tools.	Aug 2018 - Feb 2019

PUBLICATIONS

RainbowCake: Mitigating Cold-starts in Serverless with Layer-wise Container Caching and Sharing

Hanfei Yu, Rohan Basu Roy, Christian Fontenot, Devesh Tiwari, Jian Li, Hong Zhang, Hao Wang, Seung-Jong Park

ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS 2024)

Libra: Harvesting Idle Resources Safely and Timely in Serverless Clusters

Hanfei Yu, Christian Fontenot, Hao Wang, Jian Li, Xu Yuan, and Seung-Jong Park

ACM International Symposium on High-Performance Parallel and Distributed Computing (HPDC 2023)

Accelerating Serverless Computing by Harvesting Idle Resources

Hanfei Yu, Hao Wang, Jian Li, Xu Yuan, Seung-Jong Park

ACM Web Conference (WWW 2022)

FaaSRank: Learning to Schedule Functions in Serverless Platforms

Hanfei Yu, Athirai A. Irissappane, Hao Wang, Wes J. Lloyd

IEEE International Conference on Autonomic Computing and Self-Organizing Systems (ACSOS 2021)

FaaSRank: A Reinforcement Learning Scheduler for Serverless Function-as-a-Service Platforms

Hanfei Yu

Master Thesis, University of Washington

Enhancing Observability of Serverless Computing with the Serverless Application Analytics Framework

Robert Cordingly, Navid Heydari, Hanfei Yu, Varik Hoang, Zohreh Sadeghi, Wes Lloyd

ACM/SPEC International Conference on Performance Engineering (ICPE 2021)

The Serverless Application Analytics Framework: Enabling Design Trade-off Evaluation for Serverless Software

Robert Cordingly, Hanfei Yu, Varik Hoang, Zohreh Sadeghi, David Foster, David Perez, Rashad Hatchett, Wes Lloyd

International Workshop on Serverless Computing (WoSC 2020)

Leveraging GPT-2 for Classifying Spam Reviews with Limited Labeled Data via Adversarial Training

Athirai A. Irissappane, Hanfei Yu, Yankun Shen, Anubha Agrawal, Gray Stanton

arXiv preprint

Implications of Programming Language Selection for Serverless Data Processing Pipelines

Robert Cordingly, Hanfei Yu, Varik Hoang, David Perez, David Foster, Zohreh Sadeghi, Rashad Hatchett, Wes J Lloyd

IEEE International Conference on Cloud and Big Data Computing (CBDDCom 2020)

ACADEMIC SERVICES

IEEE Transactions on Cloud Computing (TCC), Reviewer, 2023

IEEE Global Communications Conference (GLOBECOM), Reviewer, 2023

European Conference on Artificial Intelligence (ECAI), Reviewer, 2023

IEEE Transactions on Parallel and Distributed Systems (TPDS), Reviewer, 2023

EAI International Conference on Ad Hoc Networks (AdHocNets), Reviewer, 2021