

Contact

www.linkedin.com/in/wesley-smith-24973a12b (LinkedIn)

Top Skills

High Performance Computing (HPC)
Program Analysis
Rust (Programming Language)

Honors-Awards

Recipient - Principal's North America Undergraduate Scholarship
Outstanding Undergraduate Dissertation

Publications

Beyond Time Complexity: Data Movement Complexity Analysis for Matrix Multiplication
Writeback Modeling: Theory and Application to Zipfian Workloads
Uniform lease vs. LRU cache: analysis and evaluation
Footmark: A new formulation for working set statistics
A Relational Theory of Locality

Wesley Smith

Working on decentralized identity and privacy technologies. PhD, Computer Science.
Rochester, New York, United States

Summary

Software engineer working on global decentralized identity and privacy standards.

Dissertation topic: rigorous mathematical models of the interactions between algorithm and program level behavior and modern memory hierarchies.

Experience

Digital Bazaar, Inc.
Software Engineer
January 2024 - Present (1 year 1 month)

University of Rochester
Graduate Research And Teaching Assistant
May 2019 - August 2023 (4 years 4 months)

University of Rochester
Project Assistant
May 2018 - September 2018 (5 months)
Research assistant - working with formal and precise mathematical definitions of concepts in locality theory. Contributed to two manuscripts awaiting publication.

University of Rochester
Machine Learning Intern
May 2017 - September 2017 (5 months)
Research intern tasked with implementing generative adversarial networks (GANs) to generate cross-modal representations of musical performances.

Rochester Institute of Technology
Summer Research Intern

June 2014 - August 2014 (3 months)

Laboratory for Multiwavelength Astrophysics. Spectral data reduction and analysis

Education

University of Rochester

Doctor of Philosophy - PhD, Computer Science · (2019 - 2023)

University of Rochester

Master's degree, Computer Science · (May 2019 - May 2021)

The University of Edinburgh

BSc, Mathematics and Computer Science · (2015 - 2019)

Brighton High School

NYS Regents Diploma - Advanced Designation in Math and Science · (2011 - 2015)