

Christophe P Gyurgyik

PhD Candidate in Computer Science, Stanford University



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cgyurgyik



cgyurgyik.github.io

Education

Stanford University	2023 - Present
Doctor of Philosophy Candidate, Computer Science	
Cornell University	2018 - 2021
GPA: 3.904	
Bachelor's Degree, Computer Science	
Minor, Science & Technology Studies	

Conference Publications

ASPLOS 2023	<i>"Stepwise Debugging for Hardware Accelerators"</i>
	Griffin Berstein, Rachit Nigam, Christophe Gyurgyik , and Adrian Sampson.

Workshop Publications

WOSET 2021	<i>"A Toolkit for Designing Hardware DSLs"</i>
	Griffin Berstein, Rachit Nigam, Christophe Gyurgyik , and Adrian Sampson.

Experience

XLA Compiler Team, Google	2021 - 2023
Focused on compiler support, extensibility, and optimization for the Accelerated Linear Algebra (XLA) Tensor Processing Unit (TPU) compiler. Achieved x% improvements to <i>end-to-end weighted latency</i> of large language models through compiler optimizations. Acquired C++ readability within 2 months. Authored over 150,000 lines of code and reviewed over 100,000 lines of code. Received one spot bonus and two peer bonuses.	
Undergraduate Research Assistant, Cornell University	2020 - 2021
Part of the Computer Architecture & Programming Abstractions (CAPRA) group, led by Adrian Sampson. Under the supervision of Rachit Nigam, worked on Calyx , a compiler infrastructure for languages that target hardware accelerators. Achievements include shepherding the Calyx dialect into CIRCT and introducing multiple frontends used to guide language design and provide useful benchmarks.	
Software Engineering Intern, Google	2020
Primarily entailed simplifying the storage of ad events from two separate stores to one using a new, generic remote procedure call service. Received two peer bonuses.	
Engineering Practicum, Google	2019
The primary goal of this internship was to optimize the core database implementation of Sawmill Logs, an exabyte-scale data lake that supports internal Google analytics. Achieved improvement in the compression ratio by 10-15% for certain log storage types with minimal performance reduction.	

Teaching Assistant, CS2110 <i>OOP and Data Structures</i> , Cornell University	2019
Facilitated weekly recitations for 40 students and held office hours to assist students in the course.	

United States Marine Corps, Department of Defense	2013 - 2017
Served honorably in both leadership and instructor roles. Promoted 4 times in 4 years, and then obtained the rank of Staff Sergeant (E6) during the first promotion cycle after the end of active duty service. Received numerous awards for leadership and academic excellence.	

Awards

Big Red Vets, Land Grant	2020
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Volunteering

Cornell University Veteran Undergraduates Association	2018 - 2021
Student Veterans of America	2019
Institute for Human Services	2017
AccesSurf	2017
Girl Scouts of the USA	2017
Hawaii Humane Society	2017

Languages

English, French
