

HIGHLIGHT

Full stack software engineer with research experience in distributed computing, performance optimization and machine learning.

- 1+ years of experience in healthcare startup
- 9+ years of solid coding experience with 4 years of experience in research
- 4+ years of experience in parallel computing, with focus on scientific computing and machine learning

EXPERIENCE

drchrono, Sunnyvale, CA

October 2016 – present

Software Engineer (Team Lead)

- Rewrote and improved the Patient Payment system, resulted in lowered churn and significant improvement of the product's competitiveness in the market.
- Successfully lead the billing team, resulted in improved growth and quality of the product's billing component.
- Used Django, AngularJS and Javascrip to design and develop RCM tools to increase efficiency of medical billers.
- Restructured aspects of the technical interview process, leading to higher quality candidates

University of Utah, School of Computing, Salt Lake City, UT

June 2013 - July 2016

Research Assistant in Compiler Technology to Optimize Performance group, advised by Prof. Mary Hall

- Collaborated with scientists from Nvidia, BlueWaters, Argonne National Laboratory and University of Southern California.
- Improved auto-tuning across GPU and CPU architectures by extending Nitro framework with machine learning. This enabled it to tune across architectures.
- Automated generation of high performance code for Quantum Chromodynamics(QCD) application using Composable High-Level Loop (CHiLL) transformation framework.

Argonne National Laboratory, Argonne, IL Research Intern

May 2015 - July 2015

GPA 3.84

- \bullet Achieved significant search speedup between 1.6x 130x on a variety of modern architectures for parallel
- mini-applications.

 Developed an approach on exploiting performance portability in search algorithms for Autotuning.
- Built performance surrogate models of different architectures by using machine learning techniques.

SKILLS

Languages:	Python	C/C++	Javascript	R	
Misc:	Django	Angularis	CUDA	SQL	Reactis
AWARDS & 1	PUBLICATION	īS			
[LCPC'18] Polyhedral Compilation Support for C++ Features: A Case Study with CPPTRAJ					December 2017
[iWAPT'16] Exploiting performance portability in search algorithms for autotuning					February 2016
[ASPLOS'16] Architecture-Adaptive Code Variant Tuning (22% Acceptance rate)					January 2016
Robert and Elizabeth Muller Award for Promise in Physics at Ohio Wesleyan University					May 2012
EDUCATION	Ī				
MS, Computer Science					August 2016
University Of Utah, Salt Lake City, UT					GPA 3.90
BA, Computer Science and Physics (minor: Math)					May 2012

SERVICE & LEADERSHIP

Ohio Wesleyan University, Delaware, OH

- Departmental Honors in Computer Science

GradSAC at *University of Utah* – Serving on the School of Computing Graduate Student Advisory Committee, which acts as liaison between graduate students and the administration.