

Pranav Srinivasan

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EDUCATION

University of Michigan, Ann Arbor <i>Ph.D. in Computer Science</i>	Aug. 2022 – Present
University of Michigan, Ann Arbor <i>Master of Science in Computer Science</i>	Sept. 2018 – May 2019
University of Michigan, Ann Arbor <i>Bachelor of Science in Honors Mathematics & Computer Science</i>	Sept. 2014 – May 2018

EXPERIENCE

Software Engineer, C++ Compiler <i>Microsoft Corporation</i>	Aug. 2019 – Aug. 2022 Redmond, WA
<ul style="list-style-type: none">Worked on the MSVC C++ Compiler team developing support for x64 Emulation on ARM64Helped bring up ARM64EC, a new ABI used to interface with emulated binaries	
Graduate Student Research Assistant <i>University of Michigan</i>	Jan. 2019 – May 2019 Ann Arbor, MI
<ul style="list-style-type: none">Worked on analyzing tradeoffs in size, power, and latency for hardware-level obfuscation security technologyAssisted in constructing hardware acceleration benchmarks for various military applications	
Azure Networking Software Engineering Intern <i>Microsoft Corporation</i>	May 2018 – Aug. 2018 Redmond, WA
<ul style="list-style-type: none">Worked on autoscaling services running in a virtual cluster based on usage metrics using container technologies (Docker, Kubernetes)Built API extensions to a Kubernetes cluster to scale based on metrics output by in-cluster services	
System Infrastructure Engineering Intern <i>Bloomberg LP</i>	May 2017 – Aug. 2017 New York City, NY
<ul style="list-style-type: none">Built a C++ internal use library to allow users to query and update feature-flag bits stored remotely	
Research Assistant <i>University of Michigan</i>	May 2016 – Aug. 2016 Ann Arbor, MI
<ul style="list-style-type: none">Partook in research in combinatorics, specifically dealing with partial ordering properties of permutations that avoid 321 as a substring	
Teaching Assistant, EECS 183 <i>University of Michigan</i>	Sept. 2015 – Dec. 2018 Ann Arbor, MI
<ul style="list-style-type: none">Designed and implemented an elevator scheduling course project used by the class for testing C++ proficiencyManaged website and GitHub infrastructure for student final project submission for a course of 1000+ studentsConducted weekly office hours and discussion sections for a class of 20-30 students	

PROJECTS

Alpha 64 Out-of-Order Processor <i>System Verilog</i>	Jan. 2018 – May 2018
<ul style="list-style-type: none">Built a SystemVerilog hardware design for a R10K Scheme processor for a subset of the Alpha 64 ISA.Expanded design to work on parameterized superscalar and multithread levelWorked along with 3 other people	
EECS 183 Course Infrastructure <i>Python, Flask, SQLite</i>	Sept. 2016 – Dec 2018
<ul style="list-style-type: none">Built a REST API to manage student team information and validate student's GitHub, submissions, etc.Built several scripts to automate assignment tasks formerly done by hand. My favorite such script was a hill-climbing algorithm to fairly distribute grading assignments across staff with different grading skill sets.	