JONATHAN THOMAS

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OBJECTIVE	Seeking a backend software engineering position with interests in distributed systems, programming languages, compilers and operating systems.	
EDUCATION	University of Michigan	Ann Arbor, MI
	$B.S.E.\ Computer\ Science,\ B.S.\ Honors\ Mathematics,\ minor\ in\ Philosophy$	May 2019
	Honors: Phi Beta Kappa, summa cum laude	
	• Coursework: Operating Systems, Computer Networks, Compilers, Machine Learning, Web Systems	
EXPERIENCE	Facebook	Menlo Park, CA
	Software Engineering Intern, Kernel Applications	Summer 2018
	• Designed and implemented C++ service to dynamically create, destroy, list and retrieve status of network block devices used in Facebook's disaggregated flash storage fleet.	
	• Iterated upon existing Python block storage allocation service to suppor updates to clients in lieu of clients polling repeatedly for updates.	t pushing notifications of
	• Wrote tool to override command line options based on customizable host and data center configurations; reduced workflow complexity for quickly testing new application versions.	
	• Removed internal Facebook dependencies in the process of open sourcing the	ne oomd O project.
	J.P. Morgan Chase Digital	New York, NY
	Software Engineering Intern, Digital Authentication	Summer 2017
	• Wrote Java code to unify separate interfaces for Chase account backend serv	vices, streamlining testing.
	• Performed code quality inspection with senior colleagues for Java code with suggestions for refactoring, eliminating duplicated code and applying proper object-oriented design patterns.	
	$\bullet \ \ \text{Wrote tests for new protocol incorporating OAuth token authorization for 3rd-party aggregators}.$	
RESEARCH	Engineering Honors Capstone •	Ann Arbor, MI
	Undergraduate Researcher, Prof. Harsha Madhyastha	Winter 2019
	• Developed a combination of Node.js and Bash scripts to assist in comparing post load DOM trees of websites across different timespans and replay environments.	
	• Visualized the resulting statistics of the percentage of DOM differences using R.	
	Laboratory of Geometry •	Ann Arbor, MI
	Undergraduate Researcher, Prof. Sarah Koch	Fall 2017
	• Presented a poster detailing aspects of underlying combinatoric properties of	of the Mandlebrot set.
	$\bullet \ \text{Wrote Python scripts using SageMath, numpy and matplotlib to visualize associated data and help with symbolic algebra computations.}$	
LEADERSHIP	Engineering Honors Program	Ann Arbor, MI
	President, Honors Student Advisory Board	March 2017 - May 2019
	• Organized and led professional and social events in order to strengthen the	Honors community.
	• Planned and managed the advisory board weekly meetings.	
ACTIVITIES	Michigan Pops Orchestra, Assistant Concertmaster Engineering Honors GO! New Zealand Volunteer	Sep 2015 - May 2019 Apr 2017 - May 2017

Other Technologies: Bash, Thrift, Git, Vim, LATEX Miscellaneous: Avid music listener, record collector, veteran game night host, occasional backpacker

Languages: C++, C, Python (main), Java, Javascript (proficient), Rust, Haskell (familiar)

SKILLS