

JONATHAN THOMAS

JUNIOR, seeking INTERNSHIP

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SUMMARY	Computer science and mathematics junior seeking a summer 2018 internship in order to gain experience in software engineering.
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EDUCATION	University of Michigan <i>B.S.E. Computer Science and Honors Mathematics, Philosophy Minor</i> GPA: 3.84 / 4.00	Ann Arbor, MI <i>Sep 2015 – Apr 2019</i>
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- Engineering Scholarship of Honor, Regents Merit Scholarship, National Merit Scholar
- William J. Branstrom Freshman Prize, University Honors / Dean's List (all semesters)

Current Coursework

- Introduction to Operating Systems (EECS 482)
- Honors Algebra (MATH 493)

Past Coursework

- Object Oriented and Advanced Programming (EECS 381)
 - Data Structures and Algorithms (EECS 281)
 - Introduction to Computer Organization (EECS 370)
 - Introduction to Topology (MATH 590)
 - Real Analysis (MATH 451)
 - Linear Algebra (MATH 217)
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EXPERIENCE	JPMorgan Chase Digital <i>Software Engineering Intern</i>	New York, NY <i>Summer 2017</i>
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- Wrote Java code to unify separate interfaces for Chase account backend services, streamlining testing.
- Performed code quality inspection with senior colleagues for ~ 3000 lines of Java code with suggestions for refactoring, eliminating duplicated code and applying object-oriented design patterns. Suggested use of Adapter pattern to address the above disparate interface problem. Modularized testing code into distinct components each focused on single step of test, reducing potential technical debt.
- Wrote Cucumber scenario tests for new data transfer protocol incorporating OAuth token authorization for financial data aggregators.
- Used machine learning tool Splunk on real time data streams to detect and intercept malicious behavior and created conditional rules to prevent further misuse after detection.
- Worked with Agile development, meeting with scrum team on a day-to-day basis with 3-week sprints and establishing good Git version control practices.

	University of Michigan <i>Proof Tutor</i>	Ann Arbor, MI <i>Summer 2016 – Present</i>
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- Guide students in demonstrating rigorous proofs of fundamental theorems in linear algebra.

	Synergy Fiber <i>Network Intern</i>	Ann Arbor, MI <i>Summer 2016</i>
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- Redesigned company data center to implement a more energy-efficient design, moving from storing server racks in several rows to a two row hot/cold aisle system.
 - Communicated directly with C-level business customers to ensure a smooth transition to new layout.
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PROJECTS	Song of the Day 🎵	<i>Summer 2017</i>
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- Used Python scripts in conjunction with Spotify and Last.fm APIs to provide myself with a daily-updated, personalized song recommendation on my website.
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ACTIVITIES	Engineering Honors Student Advisory Board Honors GO! New Zealand Volunteer Assistant Concertmaster, Michigan Pops Orchestra	<i>Jan 2017 - Present</i> <i>Apr 2017 - May 2017</i> <i>Sep 2015 - Present</i>
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SKILLS	<i>Languages:</i> C++, C (main), Java (proficient), Python (familiar), Haskell (learning) <i>Other Technologies:</i> Bash, Cucumber, Git, Hystrix, L ^A T _E X, Maven, Splunk, Vim, Xcode <i>Foreign Languages:</i> Spanish (proficient) <i>Miscellaneous:</i> Indie music aficionado, vinyl and Modernist literature collector, veteran game night host
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