

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 with emphasis on applications of artificial intelligence and machine learning.

EDUCATION **University of Michigan** **Ann Arbor, MI**
B.S.E. Computer Science and Honors Mathematics, Philosophy Minor *Sep 2015 – Apr 2019*
GPA: 3.84 / 4.00

- 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)
 - Introduction to Topology (MATH 590)
 - Data Structures and Algorithms (EECS 281)
 - Real Analysis (MATH 451)
 - Introduction to Computer Organization (EECS 370)
 - Linear Algebra (MATH 217)
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EXPERIENCE **JPMorgan Chase Digital** **New York, NY**
Software Engineering Intern *Summer 2017*

- Attained ~40% increase in code coverage of a new data transfer standard incorporating OAuth authorization for third party financial data aggregators by Cucumber testing protocols.
- Helped design and implement new class infrastructure to ease access to a variety of Chase backend services from within testing code, leading to over 50% increase in team test case productivity per week.
- Provided code quality review for thousands of lines of Java code with suggestions for refactoring or eliminating duplicated code and employing design patterns to increase readability and extensibility.
- Utilized machine learning tools on real time data streams to detect and intercept fraudulent and otherwise malicious behavior as well as creating conditional rules to prevent further misuse.

University of Michigan **Ann Arbor, MI**
Proof Tutor *Summer 2016 – Present*

- Guide students in demonstrating rigorous proofs of fundamental theorems in linear algebra.

Synergy Broadband **Ann Arbor, MI**
Network Intern *Summer 2016*

- Oversaw the redesign of company data center to implement a more energy-efficient design.
 - Communicated directly with C-level business customers to ensure a smooth transition to new layout.
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PROJECTS **Song of the Day** *Summer 2017*
• Used Spotify and Last.fm APIs to provide myself with a daily-updated, personalized song recommendation on my website.

ACTIVITIES Engineering Honors Student Advisory Board *Jan 2017 - Present*
Honors GO! New Zealand Volunteer *Apr 2017 - May 2017*
1st Violin, Michigan Pops Orchestra and Campus Symphony Orchestra *Sep 2015 - Present*
Michigan Philosophy Club *Sep 2015 - Present*

SKILLS *Languages:* C++, C (main), Java (proficient), Python (familiar), Haskell (learning)
Other Technologies: Bash, Cucumber, Git, Hystrix, L^AT_EX, Maven, Splunk, Vim, Xcode
Foreign Languages: Spanish (proficient)
Miscellaneous: Indie music aficionado, vinyl and Modernist literature collector, veteran game night host