


# JONATHAN THOMAS

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SUMMARY     **Junior seeking a full time position** as a software engineer for 2019.

EDUCATION	<b>University of Michigan</b>	<b>Ann Arbor, MI</b>
	<i>B.S.E. Computer Science and Honors Mathematics, Philosophy Minor</i>	<i>Apr 2019</i>
	<b>GPA: 3.84 / 4.00</b>	

- Engineering Scholarship of Honor, Regents Merit Scholarship, National Merit Scholar
- William J. Branstrom Freshman Prize, University Honors / Dean's List (all semesters)

## Current Coursework

- Web Systems (EECS 485)
- Introduction to Probability (MATH 525)

## Past Coursework

- Operating Systems (EECS 482)
- Object Oriented and Advanced Programming (EECS 381)
- Data Structures and Algorithms (EECS 281)
- Honors Algebra (MATH 493)
- Introduction to Topology (MATH 590)
- Linear Algebra (MATH 217)

EXPERIENCE **Facebook** **Menlo Park, CA**  
*Incoming Software Engineering Intern* *Summer 2018*

JPMorgan Chase Digital  
Software Engineering Intern

New York, NY  
Summer 2017


- Wrote Java code to unify separate interfaces for Chase account backend services, streamlining testing.
- Performed code quality inspection with senior colleagues for  $\sim 3000$  lines of Java code with suggestions for refactoring, eliminating duplicated code and applying object-oriented design patterns.
- 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.
- 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  
*Proof Tutor* Ann Arbor, MI  
 Summer 2016 – Present

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

RESEARCH     **University of Michigan Laboratory of Geometry**      **Ann Arbor, MI**  
                          *Undergraduate Researcher*     *Sep - Dec 2017*

- Investigated the combinatorics of the Mandelbrot set under faculty advisor Dr. Sarah Koch.
- Wrote Python scripts using SageMath, numpy and matplotlib to visualize associated data and help with symbolic algebra computations.

PROJECTS      **Song of the Day**  *Summer 2017*

- Used Python scripts in conjunction with 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 - May 2017
	Assistant Concertmaster, Michigan Pops Orchestra	Sep 2015 - Present

SKILLS      *Languages:* C++, C (main), Java, Python (proficient), Haskell (familiar)  
               *Other Technologies:* Bash, Cucumber, Git, L<sup>A</sup>T<sub>E</sub>X, Maven, Splunk, Vim, Xcode  
               *Foreign Languages:* Spanish (proficient)  
               *Miscellaneous:* Indie music aficionado, vinyl and book collector, veteran game night host