

JONATHAN THOMAS

2511 Black Horse Dr NE, Grand Rapids, MI 49505 | C: (616)-916-2510

jonthoma@umich.edu | [linkedin.com/in/jonathoma](https://www.linkedin.com/in/jonathoma) | github.com/jonathoma | jonathoma.github.io

OBJECTIVE

Computer science and mathematics student seeking a summer 2018 internship in order to gain experience in software engineering, with emphasis on artificial intelligence and machine learning.

EDUCATION

University of Michigan

B.S.E. Computer Science / B.S. Honors Mathematics, Philosophy Minor

Ann Arbor, MI

Graduation: May 2019

- GPA: 3.84 / 4.00
- William J. Branstrom Freshman Prize, University Honors / Dean's List (*F'15, W'16, F'16, W'17*)
- Recipient of Engineering Scholarship of Honor, Regents Merit Scholarship, National Merit Scholar

Coursework

- Intro to Operating Systems (EECS 482 / *Current*), Honors Algebra I (MATH 493 / *Current*)
 - OOP and Advanced Programming (EECS 381), Data Structures and Algorithms (EECS 281)
 - Intro to Topology (MATH 590), Real Analysis (MATH 451), Linear Algebra (MATH 217)
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EXPERIENCE

JPMorgan Chase Digital

Software Engineering Intern

New York City, NY

Summer 2017

- Integrated Hystrix latency and fault tolerance procedures into authentication systems in order to increase resilience of distributed systems against malicious users and brute force attacks.
- Employed machine learning methods with Splunk on real time data streams to detect and intercept fraudulent behavior and created conditional rules to prevent further misuse.
- Increased code coverage of new data transfer standard for financial data aggregators from < 20% to 70% with Cucumber testing protocols.

University of Michigan

Proof Tutor

Ann Arbor, MI

Summer 2016 - Present

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

Synergy Broadband

Network Intern

Ann Arbor, MI

Summer 2016

- Oversaw the redesign of company data center to implement an energy-efficient cooling system.
- Communicated directly with business customers to ensure a smooth transition to new layout.

Alternative Engineering, Inc.

Engineering Intern

Belmont, MI

Summer 2015

- Investigated growing fields in the materials handling industry in order to develop an effective business strategy for the company.
 - Presented 8 weeks of research, data analysis, and recommendations to CEO and project manager.
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SKILLS

Computer Languages: C++, C (main) / Java (proficient) / Python (familiar) / Haskell (learning)

Other Technologies: Bash, Cucumber, Git, Hystrix, Maven, Splunk, Vim, Xcode

Foreign Language: Spanish (proficient)

ACTIVITIES

Engineering Honors Student Advisory Board

January 2017 - Present

1st Violin, Michigan Pops Orchestra and Campus Symphony Orchestra

September 2015 - Present

Michigan Philosophy Club

September 2015 - Present