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)
- 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)

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 token-based 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.
- Worked with Agile development, meeting with scrum team on a day-to-day basis with 3-week sprints.

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

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

Synergy Fiber   **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.

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, LaTeX, Maven, Splunk, Vim, Xcode
Foreign Languages: Spanish (proficient)
Miscellaneous: Indie music aficionado, vinyl and Modernist literature collector, veteran game night host