JONATHAN THOMAS

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EDUCATION

University of Michigan   **Ann Arbor, MI**
B.S.E. Computer Science and Honors Mathematics, Philosophy Minor   *Grad. May 2019*
GPA: 3.85 / 4.00

- Engineering Scholarship of Honor, Regents Merit Scholarship, National Merit Scholar
- William J. Branstrom Freshman Prize, University Honors / Dean's List (all semesters)
- Coursework: Operating Systems, Computer Networks, Compiler Construction, Machine Learning

EXPERIENCE

Facebook   **New York, NY**
Incoming Software Engineer   *Sep 2019*

- Incoming new graduate software engineer at Facebook NY.

Facebook   **Menlo Park, CA**
Software Engineering Intern - Kernel Applications   *Summer 2018*

- Designed and implemented C++ service to dynamically create, destroy, list and retrieve status of network block devices used in Facebook's disaggregated flash storage.
- Improved Python block storage allocation service to support pushing notifications of updates instead of clients polling for updates as an independent microservice.
- Wrote tool to override command line options based on customizable host and data center configurations; reduced workflow for testing new application versions.
- Removed internal Facebook dependencies in the process of open sourcing the oomd ⬡ project.

J.P. Morgan Chase Digital   **New York, NY**
Software Engineering Intern - Digital Authentication   *Summer 2017*

- Wrote Java code to unify separate interfaces for Chase account backend services, streamlining testing.
- Performed code quality inspection with senior colleagues for Java code with suggestions for refactoring, eliminating duplicated code and applying proper object-oriented design patterns.
- Wrote tests for new protocol incorporating OAuth token authorization for 3rd-party aggregators.

PROJECTS

Engineering Honors Capstone ⬡   **Ann Arbor, MI**
Undergraduate Researcher   *Winter 2019*

- Building a command line tool to assist in checking correctness in the DOM trees and memory heaps of cached JavaScript function executions under faculty advisor Prof. Harsha Madhyastha.

Laboratory of Geometry ⬡   **Ann Arbor, MI**
Undergraduate Researcher   *Fall 2017*

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

LEADERSHIP

Engineering Honors Program   **Ann Arbor, MI**
President, Honors Student Advisory Board   *March 2017 - Present*

- Lead the planning of events and opportunities that help strengthen and grow the Honors community.
- Manage and schedule weekly meetings of the board for the term.

ACTIVITIES

Assistant Concertmaster, Michigan Pops Orchestra   *Sep 2015 - Present*
Honors GO! New Zealand Volunteer   *April - May 2017*

SKILLS

Languages: C++, C (main), Python (proficient), Java (familiar)
Other Technologies: Bash, Git, LaTeX, Vim
Miscellaneous: Avid music listener, vinyl and book collector, veteran game night host