

# Caleb Lehman

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## OBJECTIVE

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Seeking post-graduate employment in an entry-level position in software development where I apply skills learned as an undergraduate to develop robust software and continue to improve my abilities as a professional developer.

## SUMMARY

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- Strong background in mathematics, data structures and algorithms, and principles of software design
- Experience presenting and communicating work in both technical and non-technical settings
- Experience as a developer on a team responsible for meeting client-driven requirements
- Experience as a project leader responsible for determining the direction of research projects

## EDUCATION

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- **Ohio State University** Columbus, OH  
*Overall GPA: 3.99* *Aug. 2016 – May 2020 (expected graduation)*
  - **Bachelor of Science in Computer Science:** 3.97 GPA in major; Coursework included Algorithms, Software Development, Artificial Intelligence, and Computer Graphics.
  - **Bachelor of Science in Mathematics:** 4.00 GPA in major; Coursework included Analysis, Linear Algebra, Differential Equations, Combinatorics, and Number Theory.
  - **Minor in Economics:** 4.00 GPA in minor; Coursework focused on Econometrics and Game Theory.
  - **Capstone Project:** Worked with a team at NextEra Energy to develop applications to monitor efficiency of solar energy sites, as well as automate and deploy the applications on AWS. Helped the team meet deadlines and create presentations of our progress for managers. The NextEra team was then able to use the developed applications to identify several sites with relatively low efficiency.

## EXPERIENCE

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- **Ohio Supercomputer Center** Columbus, OH  
*Student Programmer* *August 2019 - Current*
  - **Scientific Applications Group:** Ensure repeatable and reliable installations of various common scientific applications provided to users. Responsible for writing and maintaining Bash/Python scripts to automate the installation and ReFrame tests used for the sanity checking of the HPC systems.

- **User Support:** Respond to user requests for support through ServiceNow ticketing system. Responsible for requests regarding software licenses, bugs, and program optimization for use on the clusters.

- **University of Chicago / Illinois Institute of Technology** Chicago, IL  
*Student Researcher* *May 2019 - August 2019*
  - Led the development and testing of a novel task-based parallel runtime system in C/C++. Presented research in the ACM Student Research Competition at the conference *Supercomputing 2019*.
- **Ohio Supercomputer Center** Columbus, OH  
*Student Programmer* *May 2018 - May 2019*
  - Worked with researchers at the Byrd Polar and Climate Research center to develop the SETSM project ([github.com/setsmdeveloper/SETSM](https://github.com/setsmdeveloper/SETSM)). Applied knowledge of numerical computing to improve the speed of the researchers' C++ code by up to 15%. Wrote Bash scripts to benchmark the code on a variety of clusters in the XSEDE network. Delivered detailed performance reports for SETSM to researchers using it for the ArcticDEM project ([pgc.umn.edu/data/arcticdem/](https://pgc.umn.edu/data/arcticdem/)), helping ensure continued funding.
- **Battelle Center for Mathematical Medicine** Columbus, OH  
*Student Researcher* *August 2015 - September 2016*
  - Worked with Dr. William Ray to develop MATLAB and C++ implementations of RNA and protein sequence alignment algorithms. Trained new interns in the use of Linux and VirtualBox.

## SCHOLARSHIPS AND AWARDS

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- **Merit-Based Scholarships:** Maximus Scholarship; CIS Undergraduate Scholarship; Goldstein Mathematics Scholarship (all received while at The Ohio State University).
- **Dean's List:** Awarded in each semester that a student completes a minimum of 12 credit hours with a GPA of 3.5 or higher. Received all semesters while at The Ohio State University.
- **OSU RBG Math Competition:** Placed 2<sup>nd</sup>, 3<sup>rd</sup>, 2<sup>nd</sup>, and 2<sup>nd</sup> in 2014, 2015, 2016, and 2018.

## TECHNICAL SKILLS

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- **Languages:** Experience with C/C++, Python, Javascript; Some familiarity with R, Haskell, Java, C#
- **Technologies:** Experience with Git, ServiceNow, Docker, AWS (Amazon EC2)