# Benjamin H Glick


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## Goals

To be a team cheerleader and tactician, to use my subject knowledge technical skills and interpersonal skills to take part in valuable projects.

## Strengths/Skills

Planning, problem solving, tactics, motivating or inspiring others, anchor of a team or group, ability to develop new CS skills, speed at grasping new and complex concepts. Technical skills include python, c, c++,databases, javascript, html/css, java, functional programming including lisp and haskell, network programming, systems software, and LaTeX/TeX

## Education

**2016-Present** Student (BA, Physics & Mathematics/Computer Science, Expected 2020) - Lewis and Clark College

**2012-2016** Student (High School Diploma, 2016) - The University of Chicago Laboratory High School

## Recent Experience

**May 2019 - Aug. 2019** GE Transportation, A Wabtec Company
*Digital Technology Leadership Program Intern*
Member of a cloud-based DevOps team, developing an application development and deployment platform using Kubernetes. Designed and implemented role-based authentication systems using OpenID-Connect, developed cloud infrastructure management tools. Also worked on a computer-vision app using Tensorflow and OpenCV.

**May 2018 - Aug. 2018** General Electric Transportation
*Digital Technology Leadership Program Intern*
Member of a production cybersecurity team. Designed prototype and proof of concept software and hardware systems. Designed and implemented software solutions for locomotive control computers and the GoLinc platform relating to data collection, encryption, management, and movement. Developed internal tools for security and cost audits of product teams.

**June 2017 - Present** Parsl Project, Argonne National Laboratory / Computation Institute, University of Chicago
*Research Software Engineer*
The Parsl research group creates and maintains high-performance computing tools for scientific and data-intensive computing. There, I develop, maintain, and manage tools to make data-intensive and computationally demanding tasks easy to use, secure, and scalable in a variety of computing environments from multicore computers to some of the largest supercomputers in the world. I contribute to development of live projects with active scientific users as well as prototypes for future projects.

**Jan 2018 - Present** Watzek Library, Lewis and Clark College
*Digital Innovation Specialist*

Watzek Digital Initiatives handles Lewis & Clark's digital collections and infrastructure, as well as supporting research and academic computing on campus. As DI Specialist, I manage operation of LC's high-performance computing infrastructure, design solutions to help students, staff, and faculty solve digital problems, and assist in maintenance of the library's digital information resources.

## Selected Publications, Talks and Presentations

**Oct. 2019** Consortium of the Computing Sciences in Colleges
*Paper (forthcoming)*

Paper describing an open-source distributed system designed to keep track of digital objects for long-term resilient storage and archival accepted for presentation at the CCSC-NW 2019 conference. Paper will be published in Journal of the Computing Sciences in Colleges.
**Glick, B.H.** and Mache, J. "LIBRE-ary: An Open-Source, Distributed Digital Archiving System." In *Proceedings of the Conference of the Northwest Regional Consortium of Computing Sciences in Colleges.* (Oct. 2019)

**May 2019** Portland State University CS 406/506 Accelerated Computing
*Guest Lecture*

Talk introducing use cases of GitHub Pages
**Glick B. H.** and Mache, J. "Introduction to OpenACC." Guest Lecture in Prof. Karen Karavanic's CS 406/506 Accelerated Computing with GPUs and Intel Phi, Spring 19. (May 2019)

**Feb. 2019** Oregon Academy of Science
*Abstract and Oral Presentation*

Abstract and talk describing a novel approach to HPC job scheduling, using machine learning to predict HPC job behavior in order to create a more intelligent execution schedule.
**Glick, B. H.** and Mache, J. "Using Machine Learning to Enable Job-Aware Scheduling". In *Proceedings of the Oregon Academy of Science* (Feb. 2019)

**Nov. 2018** SC '18/ EduHPC '18
*Workshop Paper*

Article describing high-performance computing workflow optimization platform, specifically designed to provide an HPC environment conducive to educational computing accepted to Workshop on Education and High Performance Computing 2018 (EduHPC 18), at SC '18.
**Ben Glick** and Jens Mache. 2018. *Jupyter Notebooks and User-Friendly HPC Access* Workshop on High Performance Computing and Education, 2018 (EduHPC '18), at the International Conference for High Performance Computing, Networking, Storage and Analysis (SC '18) (Nov. 2018). DOI 10.1109/EduHPC.2018.00005. https://ieeexplore.ieee.org/document/8638386

**Oct. 2018** Consortium of the Computing Sciences in Colleges, Northwest Region.
*Poster and Award*

Poster describing computational platform for providing researchers and students with access to high-performance computing resources without requiring technical knowledge about the underlying HPC software and hardware presented at CCSC-NW meeting and won best student poster award for 2018 meeting.

**Oct. 2018** Journal of Computing Sciences in Colleges
*Journal Article*

Article describing an open-source course curriculum and additional teaching materials published in J. Comput. Sci. Coll.
**Ben Glick** and Jens Mache. 2018. *Using jupyter notebooks to learn high-performance computing.* J. Comput. Sci. Coll. 34, 1 (October 2018), 180-188. (Oct. 2018) https://dl.acm.org/citation.cfm?id=3280518