

# Alex Johnson

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## Professional Summary

Recent graduate with a Master of Science in Electrical and Computer Engineering. In-depth experience in networking and high-performance computing for supercomputers including C/C++, MPI and OpenSHMEM. Looking to pivot these skills to distributed applications, blockchains and Internet networking. High energy and driven with strong communication skills, thriving in fast-paced, self-motivated environments.

## Employment history

**Graduate Research Engineer, NSF Center for Space, High-Performance, and Resilient Computing (SHREC). Pittsburgh, Pennsylvania**

Aug. 2019 – Apr. 2021

- Led and developed research plans for team of 3 graduate and 2 undergraduate researchers.
- Provided code review and debugging support for all team members along with weekly internal meetings.
- Developed novel benchmarks for evaluating communication scaling performance of supercomputers using up to 320 nodes.
- Wrote grants to gain access to national supercomputers such as National Scientific Computing Center (NERSC) and Pittsburgh Supercomputing Center (PSC).

## Education

**University of Pittsburgh, Pittsburgh, Pennsylvania**

Master of Science, Electrical and Computer Engineering, Apr. 2021

**University of Pittsburgh, Pittsburgh, Pennsylvania**

Bachelor of Science, Electrical Engineering, Apr. 2019

## Languages

Mandarin Chinese



German



## Skills

CI/CD



Git



Distributed Systems



Networking



Linux



TypeScript/JavaScript



Python



Go



C/C++

