

PETER GOTTESMAN

peter@petergottesman.com

<https://github.com/PeterGottesman/>

EDUCATION

- University at Buffalo** 2017 - May 2021
B.S. Computer Engineering GPA: 3.3/4.0
Minor Classical Civilizations GPA: 4.0/4.0
- Technical University of Denmark** August - December 2019

WORK EXPERIENCE

- Cisco | Intern | San Jose, CA** May - August 2019
- Added InfiniBand userspace verbs functionality to existing Cisco VIC Linux kernel driver
 - Validated functionality using libverbs- and libfabric-enabled userspace applications
 - Investigated performance variations in varied testing environments
 - Fully documented and presented my rationale, testing, and findings
 - **Skills and Tools:** InfiniBand, RDMA, HPC, Linux Kernel Programming, C, Git, Python
- University at Buffalo | Teaching Assistant | Amherst, NY** August 2018 - Present
- Teaching assistant for CSE 220: System Programming starting the first semester it was offered
 - Taught weekly recitations, office hours, and graded student assignments
 - Designed and maintained multiple assignments
 - **Skills and Tools:** C, Bash, Python, Git, GDB
- Cisco | Intern | San Jose, CA** June - August 2018
- Created a Continuous Integration Github webhook to enforce kernel coding style
 - Retooled internal development cluster of 130+ nodes to xCAT cluster manager
 - Worked closely with developers from other institutions on open source projects
 - **Skills and Tools:** Git, Github API, Python, Perl, Linux, xCAT, OpenLDAP, MPI, HPC
 - Github: <https://github.com/open-mpi/mpi>, <https://github.com/open-mpi/mtt>

SIDE PROJECTS

- Roomeez** October 2018
- Used Wayfair's 3D model API and BabylonJS to procedurally furnish rooms
 - Created in 36 hours at the Big Red Hacks Hackathon
 - Winner of "Best Use of Wayfair's API" and "Best Use of Algolia" prizes
 - **Skills and Tools:** Javascript, BabylonJS, Algolia
 - Github: <https://github.com/PeterGottesman/Roomeez>
- Open MPI** February 2015 - August 2017
- Created AWS based regression testing tool for MPI implementations
 - Used awscli and boto3 for automation through Bash and Python
 - Presented findings at regional science fairs for high school students
 - **Skills and Tools:** Python, Bash, C, AWS, SQL, Linux, MPI, Git
 - Github: <https://github.com/open-mpi/aws-pmix-scale-testing>

LEADERSHIP EXPERIENCE

- University at Buffalo CSE Peer Mentorship** February 2018 - Present
- Developed a peer mentorship program to help incoming freshmen in the CSE Department
 - Run the program every autumn with 20+ Mentees and 15+ Mentors
 - Personally mentored two first semester students so far
- UB ACM Executive Board | Secretary** October 2017 - Present
- Helped to organize and run biweekly events
 - Acted as point of contact for organizations looking to run events on campus
 - Helped to make club more inclusive and improve attendance to events