## **EMERSON FORD**

EDUCATION
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University of Utah
Double BS in Honors Computer Science & Mathematics, Statistics Emphasis
May 2016 – December 2020   GPA: 3.7 / 4.0
Relevant Course Work: Adv Operating Systems*, Programming Languages*, Operating Systems, Comput Networks, Algorithms, Models of Computation, Intro to Data Science, Intro to Probability (*currently enrolled)
Skills: Python 3, C, C++, MySQL, ደፕ፫X, Ruby, Rust, Java, asynchronous programming, Bash, Git, Mercuri Docker, Docker Compose, AWS, Node.js, Thrift, RPC, stateless services, networking
EXPERIENCE
University of Utah – Center for High Performance Computing
Student Intern   Salt Lake City   May 2017 – Present
<ul> <li>Prototyped OpenStack, Emulab, and OpenNebula for the development of a HPCaaS environment.</li> <li>Implementing Puppet and Foreman for new host provisioning on the SLATE research project.</li> </ul>
Facebook
Production Engineer Intern   Seattle   Summer 2019
<ul> <li>Worked with the Storage Platform team which manages all storage hardware at Facebook.</li> </ul>
<ul> <li>Developed and deployed a service in Python 3 to automate stress testing of storage nodes.</li> </ul>
Helped and mentored other interns in learning Facebook's tools and infrastructure.
Facebook Production Engineer Intern   Seattle   Summer 2018
<ul> <li>Developed and deployed an asynchronous, stateless service in Python 3 to manage the lifecycles for hosts powering Facebook's Scuba service.</li> </ul>
LEADERSHIP
HackTheU   Chief Director   May 2017 – Present
Organize and manage a team of 20 that hosts Utah's largest hackathon with over 250 attendees in 2018 at t University of Utah. Administrate the non-profit and 501(c)(3) status of the organization.
School of Computing Undergraduate Advisory Committee   Member   May 2017 – Present Host student events and serve as the student voice for the School of Computing.
PROJECTS / ACTIVITIES
• Deployed registration.hacktheu.org and auth.hacktheu.org on AWS with Docker/Docker Compose.
• Linux character device kernel modules and a custom sbrk implementation in xv6 for Operating System

• Second place winner of the Lucid Software Capture the Flag competition.

• Basic reliable transport protocol, load balancer, and malware filtering proxy for Computer Networks.