

# EMERSON FORD

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Fourth-year CS student at the University of Utah interested in infrastructure and low-level systems.

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## EDUCATION

### 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, Computer Networks, Algorithms, Models of Computation, Intro to Data Science, Intro to Probability\* (\*currently enrolled)

**Skills:** Python 3, C, C++, MySQL,  $\text{\LaTeX}$ , Ruby, Rust, Java, Bash, Git, Mercurial, Docker, Docker Compose, AWS S3 & Lightsail, Node.js, Thrift, RPC, asynchronous/event-driven programming, stateless services, networking

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## EXPERIENCE

### University of Utah – Center for High Performance Computing

Student Intern | Salt Lake City | May 2017 – Present

- Prototyped OpenStack, Emulab, and OpenNebula for the development of a HPCaaS environment.
- Implementing Puppet and Foreman for new host provisioning on the SLATE research project.

### Facebook

Production Engineer Intern | Seattle | Summer 2019

- Worked with the Storage Platform team which manages all storage hardware at Facebook.
- Developed and deployed a service in Python 3 to automate stress testing of storage nodes.
- Helped and mentored other interns in learning Facebook's tools and infrastructure.

### Facebook

Production Engineer Intern | Seattle | Summer 2018

- Developed and deployed an asynchronous, stateless service in Python 3 to manage the lifecycles for all hosts powering Facebook's Scuba service.

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## 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 the 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.

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## 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 Systems.
- Basic reliable transport protocol, load balancer, and malware filtering proxy for Computer Networks.
- Second place winner of the Lucid Software Capture the Flag competition.