

Justin B. Helfman

Denver, CO 80206

440-465-9588 | justinbhelfman@gmail.com | <https://jbhelf.github.io> | www.linkedin.com/in/justin-b-helfman/

WORK EXPERIENCE

-
- Pratt & Whitney, Denver, CO — Principal Software Engineer** June 2023 - Present
Joining the controls and diagnostic systems (CDS) leading cloud initiatives
- Managing software licensing, internal tooling, and govcloud efforts
- BarrelSense, Denver, CO — Lead DevOps Engineer** February 2023 - June 2023
Served as a startup consultant, leading efforts in cloud operations and DevOps
- Lead Azure cloud architecture planning, implementation and testing, for minimum viable product release
- Alteryx, Broomfield, CO — Associate Site Reliability Engineer** July 2022 - January 2023
Oversaw cloud operations efforts, resolving urgent defects and system outages affecting customers
- Directed SRE into an agile-based workflow, resulting in 29 documented and completed epics in 3 months
 - Orchestrated design of automated auditing tools for Security and Organizational Controls (SOC 2)
- Alteryx, Broomfield, CO — DevOps Intern** May - August 2021
Built Amazon Machine Images (AMI) to expand data sources used with Alteryx Designer
- EC2 AMIs utilized in over 130,000 instances in GitLab pipelines over a 12-week period
 - Built a framework to automatically audit AMIs and determine value based on accessibility and security
- Eaton Corporation, Moon, PA — Software Engineering Intern** January - April 2021
Created remote scripts to interface with circuit breakers, testing for functionality and defects
- Architected automated firmware testing pipelines, allowing developers to focus solely on feature design
- Eaton Corporation, Plymouth, MN — Software Engineering Intern** June - August 2020
Organized and delivered a continuous integration/continuous development tool using virtual machines
- Presented project summary, saving developers an estimated 2,000 hours per year

LEADERSHIP EXPERIENCE

-
- Purdue University, West Lafayette, IN - Teaching Assistant** January - May 2022
Created coursework for students to gain experience in CI/CD topics using GitHub actions
- Course topics included CI/CD, IaaS, PaaS, FaaS, Python, NodeJs, UNIX, GIT, web design, and Fuzzing
- Alpha Epsilon Pi, West Lafayette, IN — Recruitment Chair** January 2019 - November 2020
Orchestrated recruitment team, conducted recruiting planning and efforts
- Recruited a new member class, exceeding previous records by 35% in my first year
 - Designed socially distant events during COVID increasing membership in my second year by 16%

EDUCATION

-
- Purdue University, West Lafayette, IN** August 2018 - May 2022
- B.S. Computer Engineering GPA: 3.14/4.00
 - Entrepreneurship & Innovation Certificate

PROJECTS

-
- NHL Score Prediction Neural Network** December 2022
 - Designed a multilayer perceptron neural network that predicts NHL game outcomes
- Digital Systems Design Project** August - December 2021
 - Created an app to digitally record and display the results of a real chess game
 - Worked with chess AI to aid player moves, and provide a variable-difficulty computer to compete against
- SARS-CoV-2 (COVID-19) Analysis** May - December 2020
 - Administered predictive mortality and infection models and observed trends between these forecasts and global ratings by country of human development, free press, and mean years of schooling