Justin B. Helfman

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EDUCATION

Purdue University, West Lafayette, Indiana **August 2018 - May 2022**
- B.S. Computer Engineering **GPA: 3.14/4.0**
- Entrepreneurship & Innovation Certificate

WORK & LEADERSHIP EXPERIENCE

Alteryx, Broomfield, Colorado — 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)

Purdue University, West Lafayette, Indiana - Teaching Assistant **January - May 2022**
- Created coursework to give students experience in CI/CD topics using GitHub actions
- Course topics included CI/CD, IaaS, PaaS, FaaS, Python, NodeJs, UNIX, GIT, JIRA, and Fuzzing

Alteryx, Broomfield, Colorado — DevOps Engineering Intern **May - August 2021**
- Built Amazon Machine Images (AMI) to expand what data sources may be used with Alteryx Designer
- AMIs used 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 Township, Pennsylvania — Software Engineering Intern **January - April 2021**
- Created remote scripts to interface with circuit breakers, testing for functionality and defects

Eaton Corporation, Plymouth, Minnesota — Software Engineering Intern **June - August 2020**
- Organized and delivered a continuous integration/continuous development tool using virtual machines
- Presented project final summary saving an estimated 2000 hours per year within my team

Alpha Epsilon Pi — Recruitment Chair, Executive Board Member **January 2019 - November 2020**
- Orchestrated the recruitment team, enrolling a new member class, exceeding previous records by 35%
- Designed socially distant events during the COVID-19 pandemic increasing membership by 16%

PROJECTS

NHL Score Prediction Neural Network **December 2022-Present**
- Designing a multilayer perceptron neural network that predicts NHL game outcomes

Movie Recommendation Bot **January 2022**
- Built an automated texting service that processed participant voting based on a list of movies

Digital Systems Design Project **August - December 2021**
- Created an app to digitally record and display the results of a physical chess game
- Worked with chess AI to aid player moves, and provide a variable-difficulty computer to play against

Computer Networking Design Projects **August - December 2020**
- Developed code emulating HTTP clients, servers, forking, caesar cipher encryption, and UDP routing

Deep Learning (Neural Networks) Design Projects **August - December 2020**
- Implemented Neural Turing Machines, Convolutional LSTM, and Generative Adversarial Networks

SARS-CoV-2 (COVID-19) Analyses **May - December 2020**
- Compiled a review and method validation of 4 ICML papers in the context of infectious disease forecasting
- 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

LANGUAGES & TECHNOLOGIES

C (4 years) ● Python (4 years) ● Linux/Unix (4 years) ● Git (4 years) ● PowerShell (3 years) ● CI/CD (2 years) ● HTML (0-1 year) ● SQL (0-1 year) ● AWS (0-1 year) ● Google Cloud Platform (0-1 year) ●Tensorflow & PyTorch (0-1 year)