

# Justin B. Helfman

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## SUMMARY

Motivated and results-driven DevOps and Cloud Operations engineer. Skilled in C, Python, Git, and Shell. Proficient in Agile methodologies, AWS, and GCP. Successfully directed an SRE team to complete 29 documented epics in 3 months, and built EC2 AMIs used in over 130,000 GitLab pipelines. Passionate about code infrastructure development, machine learning, and software development.

## LANGUAGES & TECHNOLOGIES

C • Python • Git • PowerShell • HTML • SQL • YAML • Linux/Unix • CI/CD • AWS • Google Cloud Platform • TensorFlow & PyTorch

## EDUCATION

**Purdue University, West Lafayette, Indiana**

**August 2018 - May 2022**

- B.S. Computer Engineering
- Entrepreneurship & Innovation Certificate

**GPA: 3.14/4.00**

## 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 for students to gain 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 data sources used with Alteryx Designer

- EC2 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

- Architected automated firmware testing pipelines, allowing developers to focus solely on feature design

**Eaton Corporation, Plymouth, Minnesota — 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

**Alpha Epsilon Pi — Recruitment Chair, Executive Board Member**

**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%

## PROJECTS

**NHL Score Prediction Neural Network**

**December 2022-Present**

- Designing 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

**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