

# Justin B. Helfman

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## SUMMARY

Ambitious computer engineer with 4+ years of experience in DevOps, software engineering, and artificial intelligence. Vast exposure to leadership and project implementation, most recently creating course material to educate Purdue students on CI/CD and using AWS to create AMIs used over 130,000 times (over 12 weeks) in testing.

## EDUCATION

**Purdue University, West Lafayette, Indiana** **August 2018 - May 2022**  
**GPA: 3.09/4.0**

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

## WORK & LEADERSHIP EXPERIENCE

**Alteryx, Broomfield, Colorado – Associate DevOps Engineer** **July 2022**

**Purdue University, West Lafayette, Indiana - Teaching Assistant** **January - May 2021**

- Created coursework to give students experience in CI/CD topics using GitHub actions
- Facilitated labs and office hours for students in Purdue's Software Engineering Tools Laboratory
- Topics covered 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 framework to automatically audit AMIs and determine value based on accessibility and security
- Worked with a nonprofit, using Designer to curate data-based solutions aiding leaders in decision-making

**Eaton Corporation, Moon Township, Pennsylvania – Software Engineering Intern** **January - April 2021**

- Lead development for testing automation practices with firmware products
- Created remote scripts to interface with circuit breakers

**Eaton Corporation, Plymouth, Minnesota/Remote – 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

**Alpha Epsilon Pi, Recruitment Chair, Executive Board Member (Purdue University)** **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

**Digital Systems Design Project** **August - December 2021**

- Creating an app to record and display the results of a physical chess game
- Working with chess AI to aid player moves, and provide a variable difficulty computer to play against

**Computer Networking Design Projects** **August - December 2020**

- Developed programs to emulate HTTP clients, servers, fork operations, and caesar cipher encryption
- Generated a routing protocol program using the User Datagram Protocol (UDP)

**Deep Learning (Neural Networks) Design Projects** **August - December 2020**

- Developed Neural Turing Machines, Convolutional LSTM, and Generative Adversarial Networks

**SARS-CoV-2 (COVID-19) Analyses** **May-December 2020**

- (Personal Work): 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
- (Coursework): Investigated disease modeling methods and presented an ICML-style paper and findings

## LANGUAGES & TECHNOLOGIES

C (3 years) • Python (3 years) • Linux/Unix (3 years) • Git (3 years) • PowerShell (2 years) • YAML (0-1 year) • Ansible (0-1 year) • C++ (0-1 year) • CI/CD (1 year) • AWS (0-1 year) • Tensorflow & PyTorch (0-1 year) • Packer (0-1 year) • Terraform (0-1 year)