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***

- B.S. Computer Engineering ***GPA: 3.09/4.0***
- 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 GIT, JIRA, UNIX, CI/CD, fuzzing, IaaS, PaaS, and FaaS

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)*