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 for Alteryx Inc.

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 - Present***

- 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

Purdue University, ***West Lafayette, Indiana*** **- Teaching Assistant** ***(Software Engineering Tools)*** ***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***

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

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

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

NHL Score Prediction Neural Network ***December 2022-Present***

- Designing a multilayer perceptron neural network that predicts NHL game outcomes

Movie Recommendation Bot ***January 2022***

- Automated service to text three random movies to users, process user votes, and text the winning movie whenever a movie recommendation is requested on a given day

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

- Created 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 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***

- 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 Product (*0-1 year*) ●Tensorflow & PyTorch *(0-1 year)*