Justin B. Helfman

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DevOps Engineer

Motivated and results-driven DevOps and Cloud Operations engineer. Skilled in C, Python, Git, and Shell. Proficient in Agile methodologies, AWS, and GCP. Successfully implemented a scrum structure resulting in my SRE team completing 29 documented epics in 3 months, and built EC2 AMIs used in over 130,000 GitLab pipelines. Passionate about continuous integration and delivery (CICD), cloud computing, and all things automation.

Relevant skills:

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

EDUCATION

Purdue University, West Lafayette, IN — **August 2018 - May 2022**

- B.S. Computer Engineering — **GPA: 3.14/4.00**
- Entrepreneurship & Innovation Certificate

WORK & LEADERSHIP EXPERIENCE

Alteryx, Broomfield, CO — 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, IN - 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, CO — DevOps 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, PA— 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, MN— 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, West Lafayette, IN— Recruitment Chair — **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**

- Designed 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