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   GPA: 3.14/4.0
- Entrepreneurship & Innovation Certificate

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 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
- 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

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 within my team

Alpha Epsilon Pi — Recruitment Chair, Executive Board Member   January 2019 - November 2020
Orchestrated recruitment team, conducted recruiting planning and efforts
- 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

Digital Systems Design Project   August - December 2021
- Created an app to digitally record and display the results of a physical chess game
- Worked with chess AI to aid player moves, and provide a variable-difficulty computer to play 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