

# Justin B. Helfman

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## EDUCATION

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<b>Purdue University, West Lafayette, Indiana</b>	<b>August 2018 - May 2022</b>
<ul style="list-style-type: none"><li>B.S. Computer Engineering</li><li>Entrepreneurship &amp; Innovation Certificate</li></ul>	<b>GPA: 3.14/4.0</b>

## WORK & LEADERSHIP EXPERIENCE

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<b>Alteryx, Broomfield, Colorado — Associate Site Reliability Engineer</b>	<b>July 2022 - January 2023</b>
<ul style="list-style-type: none"><li>Oversaw cloud operations efforts, resolving urgent defects and system outages affecting customers</li><li>Directed SRE into an agile-based workflow, resulting in 29 documented and completed epics in 3 months</li><li>Orchestrated design of automated auditing tools for Security and Organizational Controls (SOC 2)</li></ul>	
<b>Purdue University, West Lafayette, Indiana - Teaching Assistant</b>	<b>January - May 2022</b>
<ul style="list-style-type: none"><li>Created coursework to give students experience in CI/CD topics using GitHub actions</li><li>Course topics included CI/CD, IaaS, PaaS, FaaS, Python, NodeJs, UNIX, GIT, JIRA, and Fuzzing</li></ul>	
<b>Alteryx, Broomfield, Colorado — DevOps Engineering Intern</b>	<b>May - August 2021</b>
<ul style="list-style-type: none"><li>Built Amazon Machine Images (AMI) to expand what data sources may be used with Alteryx Designer</li><li>AMIs used in over 130,000 instances in GitLab pipelines over a 12-week period</li><li>Built a framework to automatically audit AMIs and determine value based on accessibility and security</li></ul>	
<b>Eaton Corporation, Moon Township, Pennsylvania — Software Engineering Intern</b>	<b>January - April 2021</b>
<ul style="list-style-type: none"><li>Created remote scripts to interface with circuit breakers, testing for functionality and defects</li></ul>	
<b>Eaton Corporation, Plymouth, Minnesota — Software Engineering Intern</b>	<b>June - August 2020</b>
<ul style="list-style-type: none"><li>Organized and delivered a continuous integration/continuous development tool using virtual machines</li><li>Presented project final summary saving an estimated 2000 hours per year within my team</li></ul>	
<b>Alpha Epsilon Pi — Recruitment Chair, Executive Board Member</b>	<b>January 2019 - November 2020</b>
<ul style="list-style-type: none"><li>Orchestrated the recruitment team, enrolling a new member class, exceeding previous records by 35%</li><li>Designed socially distant events during the COVID-19 pandemic increasing membership by 16%</li></ul>	

## PROJECTS

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<b>NHL Score Prediction Neural Network</b>	<b>December 2022-Present</b>
<ul style="list-style-type: none"><li>Designing a multilayer perceptron neural network that predicts NHL game outcomes</li></ul>	
<b>Movie Recommendation Bot</b>	<b>January 2022</b>
<ul style="list-style-type: none"><li>Built an automated texting service that processed participant voting based on a list of movies</li></ul>	
<b>Digital Systems Design Project</b>	<b>August - December 2021</b>
<ul style="list-style-type: none"><li>Created an app to digitally record and display the results of a physical chess game</li><li>Worked with chess AI to aid player moves, and provide a variable-difficulty computer to play against</li></ul>	
<b>Computer Networking Design Projects</b>	<b>August - December 2020</b>
<ul style="list-style-type: none"><li>Developed code emulating HTTP clients, servers, forking, caesar cipher encryption, and UDP routing</li></ul>	
<b>Deep Learning (Neural Networks) Design Projects</b>	<b>August - December 2020</b>
<ul style="list-style-type: none"><li>Implemented Neural Turing Machines, Convolutional LSTM, and Generative Adversarial Networks</li></ul>	
<b>SARS-CoV-2 (COVID-19) Analyses</b>	<b>May - December 2020</b>
<ul style="list-style-type: none"><li>Compiled a review and method validation of 4 ICML papers in the context of infectious disease forecasting</li><li>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</li></ul>	

## LANGUAGES & TECHNOLOGIES

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**Languages:** C (4 years) • Python (4 years) • Git (4 years) • PowerShell (3 years) • HTML (0-1 year) • SQL (0-1 year)  
**Other:** Linux/Unix (4 years) • CI/CD (2 years) • AWS (1 year) • Google Cloud Platform (0-1 year) • Tensorflow & PyTorch (1 year)