Justin B. Helfman

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SUMMARY

Ambitious computer engineer with 3+ years of experience in software engineering and artificial intelligence. Vast exposure to project implementation, most recently with a project that saves an estimated 2000 hours per year by automating parts of software testing

EDUCATION

Purdue University, ***West Lafayette, Indiana*** ***August 2018 - May 2022***
B.S. Computer Engineering ***GPA: 3.12/4.0***
Entrepreneurship & Innovation Certificate
Relevant Coursework: Microprocessor Systems and Interfacing *(Current)* ● Artificial Intelligence *(Graduate Level)* ● Introduction to Deep Learning *(Graduate Level)* ● Introduction to Computer Communication Networks ● Data Structures ● Python for Data Science ● Advanced C Programming

WORK & LEADERSHIP EXPERIENCE

Eaton Corporation, ***Moon Township, Pennsylvania — Co-op Program*** ***January - April 2021***
Eaton Corporation, ***Plymouth, Minnesota/Remote — Software Engineering Intern*** ***June - August 2020***

- Partnered in a scrum-based team, executing multiple sprint periods
- Supported migration of automated build and deployment servers from Jenkins to Atlassian Bamboo
- 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%

GOJO Industries, ***Akron, Ohio — Summer Intern*** ***May - July 2019***

- Collaborated with customer panel testing for prototyped Purell products
- Implemented an internal study and evaluated customer responses versus qualitative results

GOJO Industries, ***Akron, Ohio — Summer Intern*** ***June - August 2018***

- Integrated into a research setting, studying product paradigms and their capabilities
- Documented final findings, and advised further actions to consider before product launch

GOJO Industries, ***Akron, Ohio — Summer Intern*** ***June - August 2017***

- Partnered with customer outreach and quality assurance teams, overseeing product manufacturing
- Monitored the procedures of a quality assurance check on recently recalled products

PROJECTS & TECHNOLOGIES

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

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

New York City (NYC) Bike Traffic Probe ***April-May 2020***

- Modeled biker congestion with respect to weather and bridges used to estimate citations distributed

Languages: C *(3 years)* ● Python *(3 years)* ● MATLAB *(3 years)* ● C# *(0-1 year)* ● C++ *(0-1 year)* ● PowerShell *(1 year)*

Other: Unix *(3 years)* ● Git *(3 years)* ● Vim *(3 years)* ● CI/CD *(1 year)* ● Tensorflow & PyTorch *(0-1 year)*